VON DUPRIN®

22 Series Exit Devices



Security & Safety
Proven Source. Proven Solutions.™

Finishes



Color	US Number	BHMA Number
Sprayed Aluminum	SP28	689
Sprayed Dark Bronze	SP313	695

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Indicates Fire Rated Application **Indicates ADA Products**

Introduction

Exit devices are a critical part of the Fire and Life Safety egress system and will provide safe and reliable service when properly applied and maintained. Von Duprin designs and manufactures exit devices in accordance to ISO 9001 Quality Management System and meets or exceed accepted U.S. domestic and International standards. All 22 series exit devices are UL listed for Panic Hardware or Fire Hardware, and are certified to ANSI A156.3, 2001, Grade1. Consult your local IR Security & Safety consultant or the Von Duprin factory for current listings.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended that whenever an unusual application condition exists, or when any modification of a product is considered, that our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.

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299 Strike

22 rim exit device for all types of single and double doors with mullion, UL listed for Panic Exit Hardware. Devices are ANSI A156.3, 2001, Grade 1. Covers stock hollow metal doors with 161* cutouts. Fits door stiles as narrow as 3 13⁄16" *(97mm)*, see page 12. See opposite page for available outside trim and device functions.

**Not applicable with all strike and mullion combinations, consult factory.*

Specifications

Device Functions	Ships ready for all functions; EO, DT, NL, TP, K, L	
Device Handing	Non-Handed	
Device Lengths	3' *(914mm)* – see minimum door opening chart at bottom of page 4' *(1219mm)* – see minimum door opening chart at bottom of page	
Finishes	SP28, SP313	
Strikes	299 Dull Black Optional Strikes	 see page 12
Dogging Feature	Hex key dogging standard LD Less Dogging	 see page 14
Electric Options	LX Latchbolt Monitor Switch RX Touch Bar Monitor Switch RX2 Double Touch Bar Monitor Switch ALK Alarm Exit Kit	see page 14 see page 14 see page 14 see page 14
Miscellaneous Options	GBK Glass Bead Kit	see page 15
Fasteners & Sex Bolts (SNB)	Includes 1 3⁄4" *(19mm)* – 2 1⁄4" *(57mm)* Wood & Metal Doors Optional SNB available for device, see next page for quantities	
Latch Bolt	Deadlocking, 3⁄4" *(19mm)* throw	
Device Centerline from	39 13⁄16" *(1011mm)* at center of device **Finished Floor** 39 11⁄16" *(1008mm)* with Mullion	
Device Dimensions		see page 13

See page 16 for How to Order specification

Minimum Door Opening Chart

Stop Height	Strike	Single Door	Double Door w/Mullion	Minimum Door Opening for 3´ device*	Minimum Door Opening w/ALK*
½´´	299	Yes	—	26.500´´ *(673mm)*	33.250´´ *(845mm)*
½´´	1439	Yes	—	25.687´´ *(652mm)*	32.437´´ *(824mm)*
½´´	299	—	4754/4854/4954	27.000´´ *(686mm)*	33.750´´ *(857mm)*
½´´	299	—	5654	25.812´´ *(656mm)*	32.562´´ *(827mm)*
½´´	1408	—	5754	25.750´´ *(679mm)*	32.500´´ *(826mm)*
½´´	1606	—	1654	26.562´´ *(675mm)*	33.312´´ *(846mm)*
⅝´´	299	Yes	—	26.750´´ *(679mm)*	33.500´´ *(851mm)*
⅝´´	1439	Yes	—	25.937´´ *(659mm)*	32.687´´ *(830mm)*
⅝´´	299	—	4754/4854/4954	27.125´´ *(689mm)*	33.875´´ *(860mm)*
⅝´´	299	—	5654	26.687´´ *(678mm)*	33.437´´ *(849mm)*
⅝´´	1408	—	5754	25.875´´ *(657mm)*	32.625´´ *(829mm)*
⅝´´	1606	—	1654	26.687´´ *(678mm)*	33.437´´ *(849mm)*

For 4´ device, add 6´´ *(152mm)

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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required
				
Product Description	22EO	22DT	22NL	22NL-OP
Trim Description	—	210DT*	210NL*	110NL-MD* 110NL-WD*
Escutcheon Plate Size	—	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	—
Pull Center to Center	—	—	—	—
Projection	—	1³¹⁄₃₂" (*42mm*)	1³¹⁄₃₂" (*42mm*)	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See page 10)	230EO	230DT	230NL	—
Optional #425 Sex Bolt Quantity for Device	6 (with no trim) 2 (with EO trim)	2	2	6

*** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

	Thumbpiece Key Locks & Unlocks	**Knob** Key Locks & Unlocks	**Lever** Key Locks & Unlocks
			
Product Description	22TP	22K	22L
Trim Description	230TP*	210K	230L*
Escutcheon Plate Size	3" x 12¹⁄₁₆" x ³⁄₃₂" (*76x306x2mm*)	3" x 4²⁵⁄₃₂" x ³⁄₃₂" (*76x121x2mm*)	3" x 6⅜" x ¹⁵⁄₁₆" (*76x162x24mm*)
Pull Center to Center	5½" (*140mm*)	—	—
Projection	2" (*51mm*)	2¹⁵⁄₁₆" (*75mm*)	2⅝" (*67mm*)
ANSI Function	05	08	08
Cylinder Type	1¼" Mortise	Furnished	1¼" Mortise
Optional Trim (See page 10)	230TP-BE	210K-BE	230L-BE
Optional #425 Sex Bolt Quantity for Device	2	2	2

*** ANSI/BHMA A156.3 (2001) Grade 1 Trim**





299F Strike



499F Strike With 9854/9954 Mullion

22-F rim fire exit device for all types of single doors up to 4' x 8' *(1219mm x 3048mm)* or 8' x 8' *(2438mm x 3048mm)* double doors with 9954 or 9854 mullion, UL listed for Fire Exit Hardware. **See page 13 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3, 2001, Grade 1. Fits door stiles as narrow as 4 ⅜" *(111mm)*, see page 12. See opposite page for available outside trim and device functions.

Specifications

Device Functions	Ships ready for all functions; EO, NL, TP, K, L
Device Handing	Non-Handed
Device Lengths	3' *(914mm)* – see minimum door opening chart at bottom of page 4' *(1219mm)* – see minimum door opening chart at bottom of page
Finishes	SP28, SP313
Strikes	299F – Dull Black, single doors 499F – Dull Black, double door with 9954 or 9854 mullion Optional Strike see page 12
Dogging Feature	No mechanical dogging
Electric Options	LX Latchbolt Monitor Switch see page 14 RX Touch Bar Monitor Switch see page 14 RX2 Double Touch Bar Monitor Switch see page 14 ALK Alarm Exit Kit see page 14
Miscellaneous Options	GBK Glass Bead Kit see page 15
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" *(19mm)* – 2 ¼" *(57mm)* Wood & Metal Doors Optional SNB available for device, see next page for quantities. Sex bolts are required on wood fire doors.
Latch Bolt	Deadlocking, ¾" *(19mm)* throw
Device Centerline from Finished Floor	39 13⁄16" *(1011mm)* at center of device 39 11⁄16" *(1008mm)* with Mullion
Device Dimensions	see page 13

See page 16 for How to Order specification

Minimum Door Opening Chart

Stop Height	Strike	Single Door	Double Door w/Mullion	Minimum Door Opening for 3´ device*	Minimum Door Opening w/ALK*
½´´	299F/499F	Yes	—	26.500´´ *(673mm)*	33.250´´ *(845mm)*
½´´	299F/499F	—	KR/9854/9954	27.000´´ *(686mm)*	33.750´´ *(857mm)*
⅝´´	299F/499F	Yes	—	26.750´´ *(679mm)*	33.500´´ *(851mm)*
⅝´´	299F/499F	—	KR/9854/9954	27.125´´ *(689mm)*	33.875´´ *(860mm)*

For 4´ device, add 6´´ *(152mm)

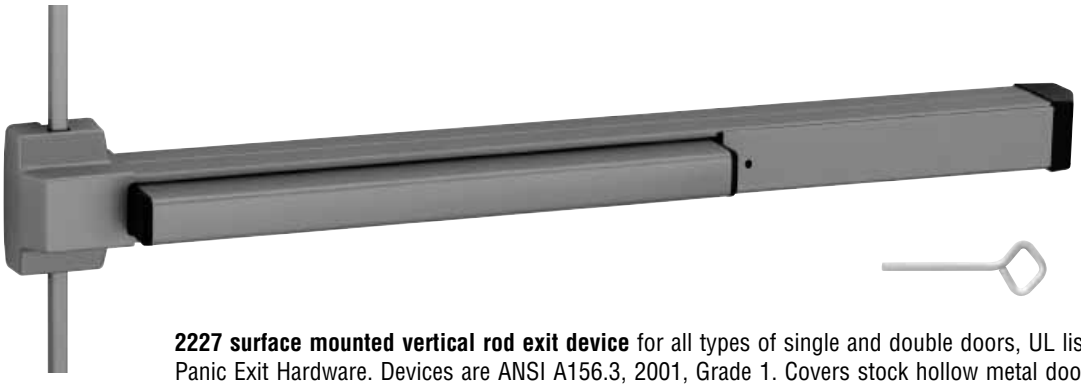
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	Exit only	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 
Product Description	22EO-F	22NL-F	22NL-OP-F
Trim Description	—	210NL**	110NL-MD** 110NL-WD**
Escutcheon Plate Size	—	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	—
Pull Center to Center	—	—	—
Projection	—	1³¹⁄₃₂" (*42mm*)	—
ANSI Function	01	03	03
Cylinder Type	—	Rim	Rim
Optional Trim (See page 10)	230EO	230NL	—
*Optional #425 Sex Bolt Quantity for Device	6 (with no trim) 2 (with EO trim)	2	6
*Additional 425 SNB for 499F strike	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

	Thumbpiece Key Locks & Unlocks 	**Knob** Key Locks & Unlocks 	**Lever** Key Locks & Unlocks 
Product Description	22TP-F	22K-F	22L-F
Trim Description	230TP**	210K	230L**
Escutcheon Plate Size	3" x 12¹⁄₁₆" x ³⁄₃₂" (*76x306x2mm*)	3" x 4²⁵⁄₃₂" x ³⁄₃₂" (*76x121x2mm*)	3" x 6⅜" x ¹⁵⁄₁₆" (*76x162x24mm*)
Pull Center to Center	5½" (*140mm*)	—	—
Projection	2" (*51mm*)	2¹⁵⁄₁₆" (*75mm*)	2⅝" (*67mm*)
ANSI Function	05	08	08
Cylinder Type	1¼" Mortise	Furnished	1¼" Mortise
Optional Trim (See page 10)	230TP-BE	210K-BE	230L-BE
*Optional #425 Sex Bolt Quantity for Device	2	2	2
*Additional 425 SNB for 499F strike	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**



2227 surface mounted vertical rod exit device for all types of single and double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3, 2001, Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. Fits door stiles as narrow as 3 ⅝" *(92mm)*, see page 12. See opposite page for available outside trim and device functions.



299 Top Strike



248L4 Bottom Strike for use with flat threshold



304L Bottom Strike

Top Latch





Bottom Latch

Specifications

Device Functions	Ships ready for all functions; EO, DT, NL, TP, K, L	
Device Handing	Non-Handed	
Device Lengths	3' *(914mm)* – see minimum door opening chart at bottom of page 4' *(1219mm)* – see minimum door opening chart at bottom of page	
Door Height	7' *(2134mm)* – standard door height Extension rods available for door heights up to 10' 12" *(205mm)* 36" (914mm)	
Finishes	SP28, SP313	
Strikes	Top 299 – Dull Black Bottom 248L-4 and 304L – Unfinished Optional Strikes	 see page 12
Dogging Feature	Hex key dogging standard LD Less Dogging	 see page 14
Electric Options	LX Latchbolt Monitor Switch RX Touch Bar Monitor Switch RX2 Double Touch Bar Monitor Switch ALK Alarm Exit Kit	see page 14 see page 14 see page 14 see page 14
Miscellaneous Options	PL Pullman Latch GBK Glass Bead Kit RG Rod Guards LG Latch Guards	see page 14 see page 15 see page 15 see page 15
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" *(19mm)* – 2 ¼" *(57mm)* Wood & Metal Doors Optional SNB available for device, see next page for quantities. Sex Bolts are furnished standard for top and bottom latches.	
Latch Bolt	Deadlocking Anti-friction Top and Bottom Bolt, ⅝" *(16mm)* throw	
Device Centerline from Finished Floor	39 $^{13}/_{16}$" *(1011mm)*	
Door Undercut	¼" *(7mm)* from finished floor recommended, ¾" *(19mm)* maximum or ⅛" *(3mm)* from threshold	
Device Dimensions		see page 13

See page 16 for How to Order specification

Minimum Door Opening Chart

Stop Height	Strike	Single Door	Double Door w/Mullion	Minimum Door Opening for 3´ device*	Minimum Door Opening w/ALK*
½´´	N/A	Yes	Vert. x Vert.	25.875´´ *(657mm)*	32.625´´ *(829mm)*
⅝´´	N/A	Yes	Vert. x Vert.	26.000´´ *(664mm)*	32.750´´ *(832mm)*

For 4´ device, add 6´´ *(152mm)

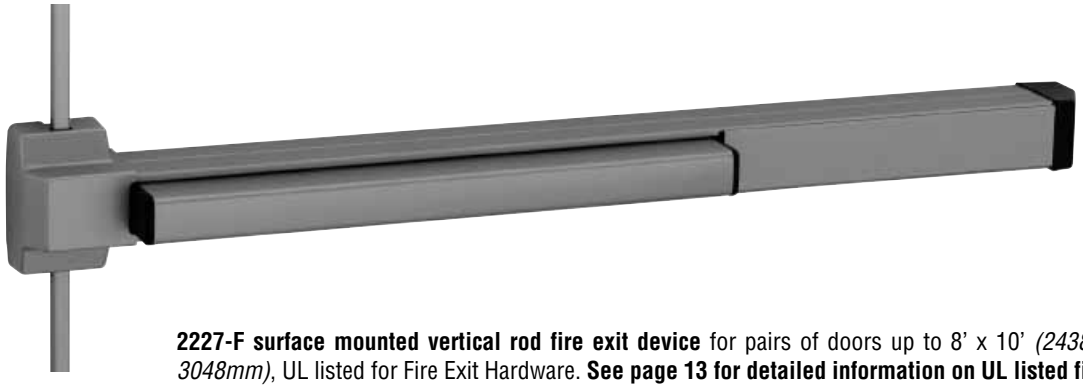
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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required
				
Product Description	2227EO	2227DT	2227NL	2227NL-OP
Trim Description	—	210DT*	210NL*	110NL-MD* 110NL-WD*
Escutcheon Plate Size	—	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	—
Pull Center to Center	—	—	—	—
Projection	—	1³¹⁄₃₂" (*42mm*)	1³¹⁄₃₂" (*42mm*)	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See page 10)	230EO	230DT	230NL	—
Optional #425 Sex Bolt Quantity for Device	6 (with no trim) 2 (with EO trim)	2	2	6

*** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

	Thumbpiece Key Locks & Unlocks	**Knob** Key Locks & Unlocks	**Lever** Key Locks & Unlocks
			
Product Description	2227TP	2227K	2227L
Trim Description	230TP*	210K	230L*
Escutcheon Plate Size	3" x 12¹⁄₁₆" x ³⁄₃₂" (*76x306x2mm*)	3" x 4²⁵⁄₃₂" x ³⁄₃₂" (*76x121x2mm*)	3" x 6⅜" x ¹⁵⁄₁₆" (*76x162x24mm*)
Pull Center to Center	5½" (*140mm*)	—	—
Projection	2" (*51mm*)	2¹⁵⁄₁₆" (*75mm*)	2⅝" (*67mm*)
ANSI Function	05	08	08
Cylinder Type	1¼" Mortise	Furnished	1¼" Mortise
Optional Trim (See pages 10)	230TP-BE	210K-BE	230L-BE
Optional #425 Sex Bolt Quantity for Device	2	2	2

*** ANSI/BHMA A156.3 (2001) Grade 1 Trim**



2227-F surface mounted vertical rod fire exit device for pairs of doors up to 8' x 10' *(2438mm x 3048mm)*, UL listed for Fire Exit Hardware. **See page 13 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3, 2001, Grade 1. Fits door stiles as narrow as 3 5/8" *(92mm)*, see page 12. See opposite page for available outside trim and device functions.



299F Top Strike



304L
Bottom Strike



Top Latch

Bottom Latch

Specifications

Device Functions	Ships ready for all functions; EO, NL, TP, K, L	
Device Handing	Non-Handed	
Device Lengths	3' *(914mm)* – see minimum door opening chart at bottom of page 4' *(1219mm)* – see minimum door opening chart at bottom of page	
Door Height	7' *(2134mm)* – standard door height Extension rods available for door heights up to 10' 12" *(205mm)* 36" *(914mm)*	
Finishes	SP28, SP313	
Strikes	Top 299F (499F LBR) – Dull Black Bottom 304L – Unfinished Optional Strikes	 see page 12
Dogging Feature	No Mechanical Dogging	
Electric Options	LX Latchbolt Monitor Switch RX Touch Bar Monitor Switch RX2 Double Touch Bar Monitor Switch ALK Alarm Exit Kit	see page 14 see page 14 see page 14 see page 14
Miscellaneous Options	LBR Less Bottom Rod GBK Glass Bead Kit RG Rod Guards LG Latch Guards	see page 14 see page 15 see page 15 see page 15
Fasteners & Sex Bolts (SNB)	Includes 1 3/4" *(19mm)* – 2 1/4" *(57mm)* Wood & Metal Doors Optional SNB available for device, see next page for quantities. Sex Bolts are furnished standard for top and bottom latches.	
Latch Bolt	Deadlocking Anti-friction Top and Bottom Bolt, 5/8" *(16mm)* throw	
Device Centerline from Finished Floor	39 13/16" *(1011mm)* at center of device	
Door Undercut	1/4" *(7mm)* from finished floor recommended, 3/4" *(19mm)* 3/8" *(9mm)* maximum	
Device Dimensions		see page 13

See page 16 for How to Order specification

Minimum Door Opening Chart

Stop Height	Strike	Single Door	Double Door w/Mullion	Minimum Door Opening for 3´ device*	Minimum Door Opening w/ALK*
1/2´´	N/A	Yes	Vert. x Vert.	25.875´´ *(657mm)*	32.625´´ *(829mm)*
5/8´´	N/A	Yes	Vert. x Vert.	26.000´´ *(664mm)*	32.750´´ *(832mm)*

For 4´ device, add 6´´ *(152mm)

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	Exit only	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 
Product Description	2227EO-F	2227NL-F	2227-OP-F
Trim Description	—	210NL**	110NL-MD** 110NL-WD**
Escutcheon Plate Size	—	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	—
Pull Center to Center	—	—	—
Projection	—	1³¹⁄₃₂" (*42mm*)	—
ANSI Function	01	03	03
Cylinder Type	—	Rim	Rim
Optional Trim (See page 10)	230EO	230NL	—
*Optional #425 Sex Bolt Quantity for Device	6 (with no trim) 2 (with EO trim)	2	6
*Additional 425 SNB for 499F strike	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

	Thumbpiece Key Locks & Unlocks 	**Knob** Key Locks & Unlocks 	**Lever** Key Locks & Unlocks 
Product Description	2227TP-F	2227K-F	22L-F
Trim Description	230TP**	210K	230L**
Escutcheon Plate Size	3" x 12¹⁄₁₆" x ³⁄₃₂" (*76x306x2mm*)	3" x 4²⁵⁄₃₂" x ³⁄₃₂" (*76x121x2mm*)	3" x 6⅜" x ¹⁵⁄₁₆" (*76x162x24mm*)
Pull Center to Center	5½" (*140mm*)	—	—
Projection	2" (*51mm*)	2¹⁵⁄₁₆" (*75mm*)	2⅝" (*67mm*)
ANSI Function	05	08	08
Cylinder Type	1¼" Mortise	Furnished	1¼" Mortise
Optional Trim (See page 10)	230TP-BE	210K-BE	230L-BE
*Optional #425 Sex Bolt Quantity for Device	2	2	2
*Additional 425 SNB for 499F strike	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

210 Series Trim

The 210DT and 210NL have a heavy 10 gauge *(2.4mm*) stainless steel escutcheon. Cylinder must be ordered separately for the 210NL trim. The 210K knob trim has a 10 gauge *(2.4mm*) steel escutcheon and uses the Schlage "A" orbit knob with six pin "C" keyway.

230 Series Trim

The 230EO, 230DT, 230NL and 230TP have a heavy 10 gauge *(2.4mm)* steel escutcheon. The 230L has a cast aluminum ¾" *(19mm)* depth escutcheon. #06 lever style furnished standard, #03 style lever is available. 230L furnished RHR if handing is not specified. Cylinder must be ordered separately for the 230NL, 230TP and 230L trims.

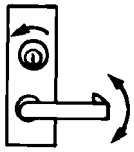
110NL Cylinder Kit

Cylinder kit is available MD for metal doors or WD for wood doors. Metal door application supplied standard if door material is not specified. When ordering with device, specify function NL-OP. Cylinder must be ordered separately.

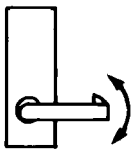
	Exit Only Trim Plate	**Dummy Trim** Pull When Dogged	**Night Latch** Key Retracts Latch Bolt	**Thumbpiece Blank Escutcheon** Always Operable, no cylinder	**Lever Blank Escutcheon** Always Operable, no cylinder	**Knob Blank Escutcheon** Always Operable, no cylinder
						
Trim Description	230EO	230DT**	230NL**	230TP-BE**	230L-BE**	210K-BE
Escutcheon Plate Size	3" x 12 1/16" x 3/32" (*76x306x2mm*)	3" x 12 1/16" x 3/32" (*76x306x2mm*)	3" x 12 1/16" x 3/32" (*76x306x2mm*)	3" x 12 1/16" x 3/32" (*76x306x2mm*)	3" x 6 3/8" x 15/16" (*76x162x24mm*)	3" x 4 25/32" x 3/32" (*76x121x2mm*)
Pull Center to Center	—	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)	—	—
Projection	—	2" (*51mm*)	2" (*51mm*)	2" (*51mm*)	2 5/8" (*67mm*)	2 15/16" (*75mm*)
ANSI Function	01	02	03	—	—	—
Cylinder Type	—	—	Rim	—	—	—
*Optional #425 Sex Bolt Quantity for Device	2	2	6	—	2	2
*Additional 425 SNB for 499F strike	2	2	2	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

Operation Options



Standard operation, key locks and unlocks lever or knob.
(Classroom)



Blank escutcheon, lever or knob always active.
(Passage)

Lever Designs



#03



#06 Standard

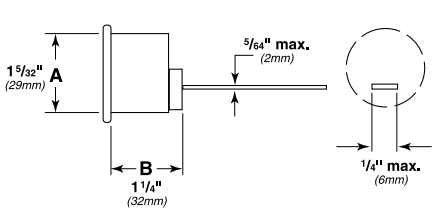
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Cylinders

Cylinders are not furnished with device or trim (unless noted) and must be specified when ordering. Specify finish when ordering separately. Only available with Schlage "C" Keyway. Custom Keying not available.

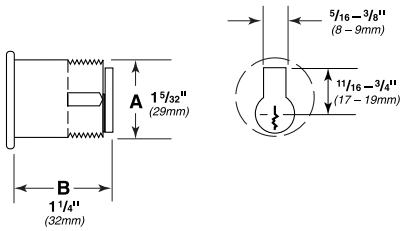
Rim – 3216





Mortise – 3215 (Schlage B502-191 cam)

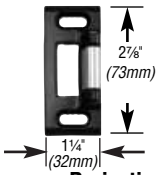




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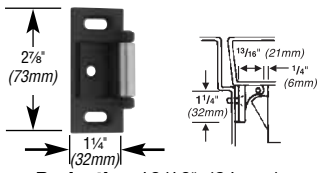
Strikes for Rim Devices

264



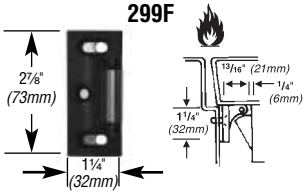
Projection 9/16" *(14mm)*

299



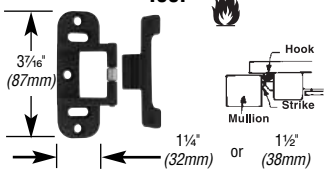
Projection 13/16" *(21mm)*

299F



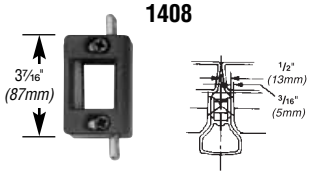
Projection 13/16" *(21mm)*

499F



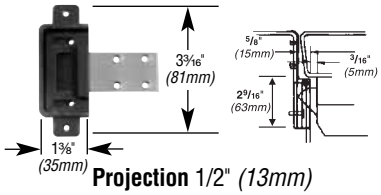
Projection 15/16" *(23mm)*

1408



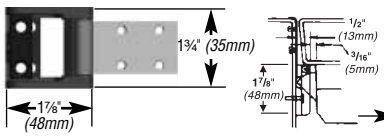
One per pair of doors

1410 – Integral Stop



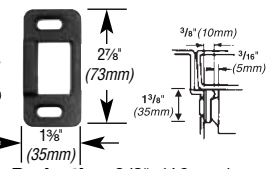
Projection 1/2" *(13mm)*

1439 – Blade Stop***



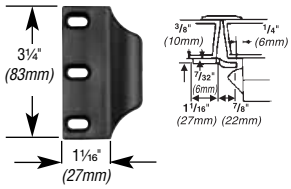
Projection 1/2" *(13mm)*

1606



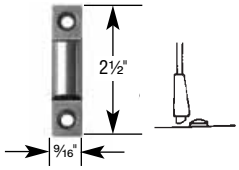
Projection 3/8" *(10mm)*

1609**



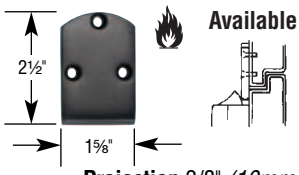
Strikes for Vertical Rod Devices

248L-4



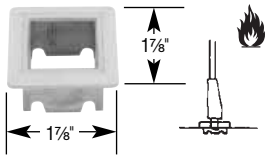
Projection 3/8" *(10mm)*

260U – Flush Transom Only
Available for FEH



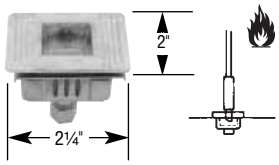
Projection 3/8" *(10mm)*

304L



Mortise 13/16" *(21mm)*

385A



Mortise 2-1/2" *(64mm)*

Strikes 264, 299, 299F and 499F also available for Vertical Rod Devices

DEVICE TYPE	STANDARD SINGLE DOOR		STANDARD DOUBLE DOOR		OPTIONAL SINGLE DOOR		OPTIONAL DOUBLE DOOR	
	STRIKE	STILE	APPLICATION*	STILE	STRIKE	STILE	APPLICATION *	STILE
22	299	4-3/4" *(121mm)*	299 w/4954	4-3/4" *(121mm)*	1439	3-3/16" *(97mm)*	299 w/5654	4-1/4" *(108mm)*
					1410	3-3/16" *(97mm)*	1408 w/5754	3-3/16" *(97mm)*
					1606	3-15/16" *(100mm)*	1606 w/1654	4-1/4" *(108mm)*
					—	—	1609 w/vertical rod**	4-3/8" *(111mm)*
22-F	299F	4-3/8" *(111mm)*	499F w/9954	4-7/8" *(124mm)*	—	—	—	—
2227 LATCH RETRACTION	299 Top 304L Bottom or 248L4 Bottom	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*	260U Top 385A Bottom	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*
2227 PULLMAN LATCH	299 Top 248L4 Bottom	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*	260U Top	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*
2227-F	299F Top 304L Bottom	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*	—	—	—	—

***Mullion information, refer to General and Auxiliary Catalog.**

****Not for UL Fire Exit Hardware. Must be used with a coordinator.**

***** Replaces 1409 Strike**

NOTE: On a Rim/Vertical Rod application for a pair of doors, the 1609 strike extends off the edge of the door into the opening.

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UL Listed Fire Exit Hardware Label and Opening Size

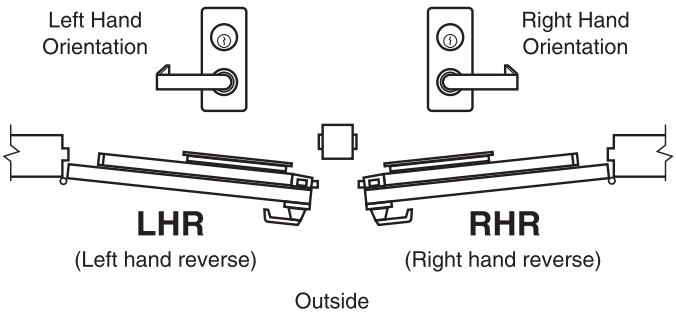
Exit Device	Door Material	Single Door		Double Door					
				With Mullion		**Same Direction		Double Egress	
22-F	HM	3 Hour	4' x 8'	3 Hour	8' x 8'	—	—	—	—
22-F	WD	90 MIN.	4' x 8'	90 Min.	8' x 8'	—	—	—	—
2227-F	HM	—	—	—	—	90 Min.	8' x 10'	3 Hour	8' x 10'
2227-F	WD	—	—	—	—	*20 Min.	8' x 10'	*90 Min.	8' x 9'
2227-F	WD	—	—	—	—	*90 Min.	8' x 9'	—	—
2227-F-LBR	HM	—	—	—	—	90 Min.	8' x 10'	3 Hour	8' x 10'
2227-F-LBR	WD	—	—	—	—	*20 Min.	8' x 10'	*90 Min.	8' x 9'
2227-F-LBR	WD	—	—	—	—	*90 Min.	8' x 9'	—	—

***UL listing for wood doors may be for a specific door manufacturer. Consult wood door manufacturers for current UL listings**
****Currently, no door manufacturer offers a listing over 90 minutes with doors swinging same direction.**

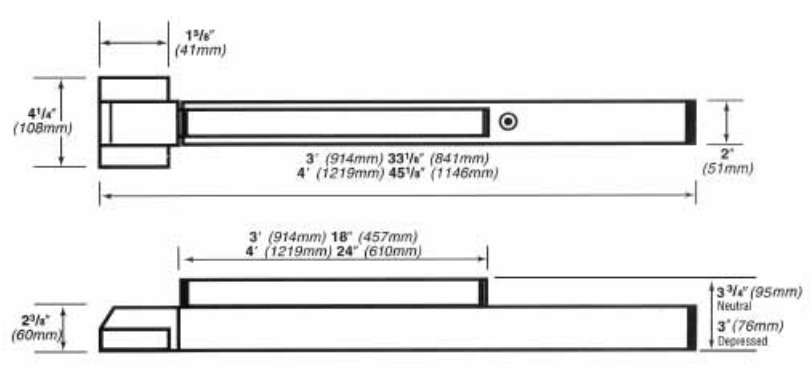
ANSI Grade, Type & Function

Function	Grade 1, Type 1	Grade 1, Type 2
01	22E0, 22E0-F	2227E0, 2227E0-F
02	22DT	2227DT
03	22NL, 22NL-F	2227NL, 2227NL-F
05	22TP, 22TP-F	2227TP, 2227TP-F
08	22K, 22K-F	2227K, 2227K-F
08	22L, 22L-F	2227L, 2227L-F

Door Handing

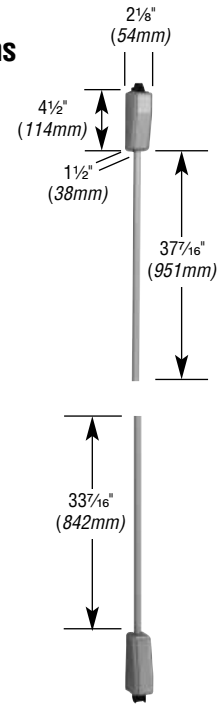


Dimensions



Vertical Rod Dimensions

Vertical rods are
½" (*13mm*) square tubing



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Less Bottom Rod – LBR

LBR option for fire exit devices is available using a spring loaded auxiliary latch bolt installed in the lower door edge. When exposed to heat the auxiliary latch bolt releases, keeping the doors in alignment and closed during a fire. See page 13 for detailed information on UL listed fire exit hardware label and door opening size information.

LBR devices for fire exit devices ship standard with a 499F top strike and less bottom strike.

LBR devices must be ordered in pairs of vertical rod devices, or must be used in conjunction with an approved automatic or constant latching flush bolt.

Less Dogging – LD

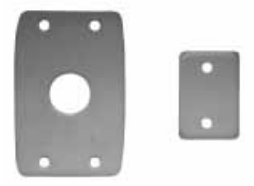
Less dogging ia available on all 22 series panic exit devices. To order, use prefix LD. Example LD22EO

Pullman Latch – PL

Pullman latches are always extended and are most commonly used in conjunction with electric strikes and LBR-less bottom rod applications. Not available with fire rated exit devices. Pullman latches do not deadlock and are not recommended for applications where security may be compromised. When the PL is specified the standard latches are replaced with Pullman style latches at an additional charge. See Pricebook for details.

Glass Bead Kit – GBK

Glass Bead kits are used on doors with raised glass beads. Each kit consists of ¼" *(6mm)* shim sets. GBK for surface vertical rod devices ship with ⅛" *(3mm)* shims for rod guides. Shims are not required for Top and Bottom latches

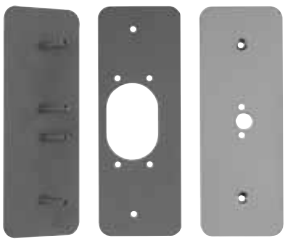


To order, specify:

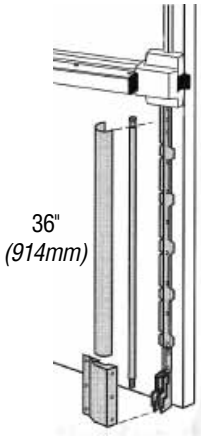
1. With device specify GBK in device description.
2. To order separately, specify model 22GBK-R (rim), 22GBK-499F (rim), 22GBK-SV (vertical rod)
3. Finish, SP28 or SP313

Cover Plate Kit – 229

Kit contains inside and outside plates for hinge stile cutouts, an inside plate for the lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations.



Vertical Rod and Latch Guard — RG-27

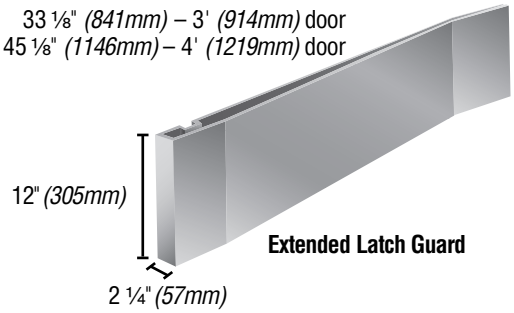


Rod Guard

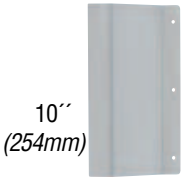
Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. If bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.

In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easiliy with the bumpers of a wheelchair. The standard latch guard features a 45˚ ramp and continuous ramp on full width or extended latch guard.

All stainless steel construction in US32D finish. Latch guards can cover latches as large as 1¼"W x 10"H x 1⅞" projection. For use on Hollow Metal Fire-Rated Doors.



Extended Latch Guard



Latch Guard

Models

RGO	— Rod guard only (Projection 1 3⁄16" *(30mm)*).
RG-27	— Rod and latch guard.
RG-27-3	— 3' *(914mm)* Rod Guard and Extended Latch Guard.
RG-27-4	— 4' *(1219mm)* Rod Guard and Extended Latch Guard.
LGO	— Latch guard only.
LGO-3	— 3' *(914mm)* Extended latch guard only.
LGO-4	— 4' *(1219mm)* Extended latch guard only.

Note: Not for use on wood fire doors

To Order, Specify:

1. Model number.
2. Handing (except on RGO).
3. Door material if other than Hollow Metal.
4. Optional sex bolt mounting available.

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Alarm Kit – ALK



The ALK battery alarm kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key thus allowing the exit device to be set in an armed or disarmed mode. The horn is rated at 85 decibel. Standard Hex Key dogging not available when using an ALK.

The key switch uses a standard 1¼" (32mm) mortise cylinder with a straight cam (Schlage Cam reference B502-191). The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal.

Alarm kits are furnished standard with a RX-request to exit switch. Optional LX-Latch bolt monitoring, or RX2-double request to exit monitor switch are available. LX latch bolt monitoring is recommended for use with surface vertical rod exit devices.

The ALK includes "EMERGENCY EXIT ONLY, ALARM WILL SOUND" decal for application on the door.

The ALK is available with two optional circuit boards. External Inhibit (EI) allows for the use of external switch to be used to arm, disarm and reset the alarm. Auto Reset (AR) rearms the alarm after a preset time. Auto Reset is available in three factory set times, 1½, 3 or 6 minutes.

The ALK can also be hard wired and powered using a PS9 power supply. See PS9 on this page for additional information.

To Order, Specify:

1. With device, specify ALK
2. To order separately, specify model 22ALK
3. Specify Options EI or AR, Example: ALK-AR. For AR option specify factory set time (1½, 3 or 6 minutes)
4. Door size other than 3'
5. Switch if other than RX
6. Finish, SP28 or SP313

Minimum door opening sizes on ALK applications – refer to device pages 2, 4, 6 and 8.

Power Supply – PS9

The PS9 is an AC power supply that provides 9 VDC power to operate the ALK alarm kit. The unit will power one or two alarm kits. Included is a 9-volt sealed battery that provides backup power in case of an AC power failure.



Electrical Power Transfer – EPT



UL Listed (GVUX) – Miscellaneous Fire Door Accessories

Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suite for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires.

Door applications:

up to 5" butt hinge – 180˚ swing
5½" butt hinge – 130˚ swing
6" butt hinge – 110˚ swing
¾" offset pivot – 180˚ swing

Not for use with swing clear hinges or center hung pivots

Finishes

SP28 (sprayed aluminum)
or SP313 (sprayed duranodic).

Dimensions

Housing	9" x 1 ¼" x 1 ⅝" *(229mm x 32mm x 38mm)*
EPT-2	Two 18 gauge wires Up to 2 amps @ 24 VDC with a 16 amp maximum surge
EPT-10	Ten 24 gauge wires, Up to 1 amp @ 24VDC with a 16 amp maximum surge

To order, specify:

1. EPT-2 or EPT-10.
2. Finish, SP28 or SP313.

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Request to Exit — RX



The RX (Request to Exit) feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the pushpad.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The RX switch option should not be used to control a load, but as a signaling switch (0.5 amps. resistive maximum).

The RX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

1. Standard – Use prefix RX, example RX22EO
2. Low Current – Use prefix RX-LC, example RX-LC22EO

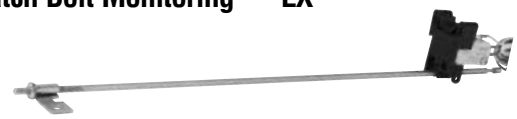
Double Request to Exit — RX2

The RX2 feature uses 2 RX switches.

To Order, Specify:

1. Standard – Use prefix RX2, example RX22EO

Latch Bolt Monitoring — LX



The LX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the latch bolt.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The LX switch option should not be used to control a load, but as a signaling switch (0.5 amps. resistive maximum).

The LX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

1. Standard – Use prefix LX, example LX22EO
2. Low Current – Use prefix LX-LC, example LX-LC22EO

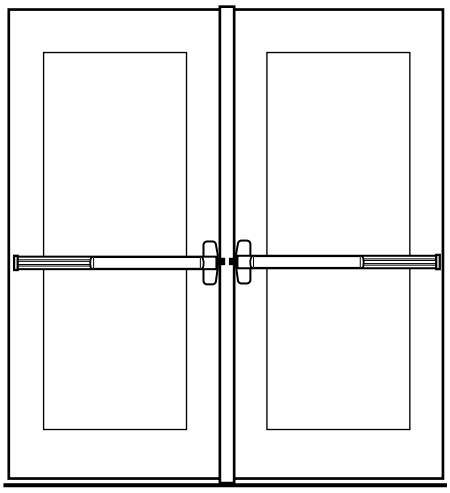
Electrical Rating for all Switches:

- Standard – up to 0.5 Amp @ 24VDC Maximum
- Low Current (LC) - up to .05 Amp @ 24VDC Maximum

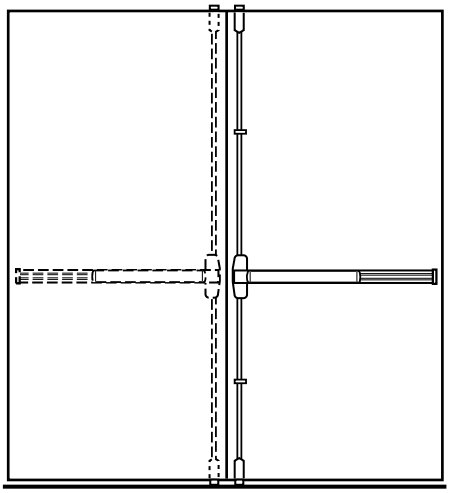
Note: All Switches can be either factory or field installed

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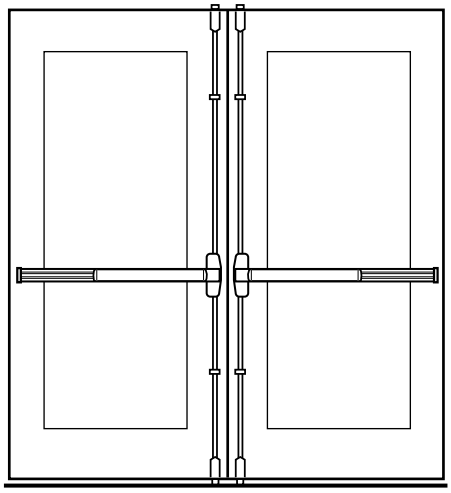
Popular Double Door Applications



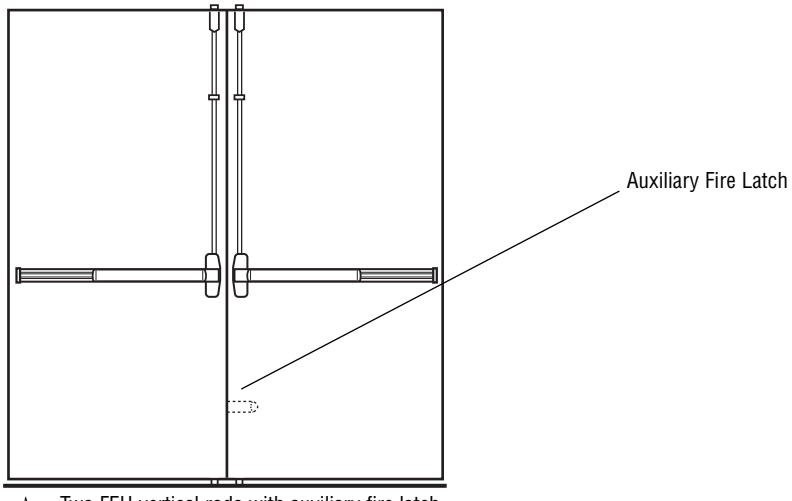
Two rim devices with mullion—same direction, panic or fire device



Two vertical rods—double egress, panic or fire device

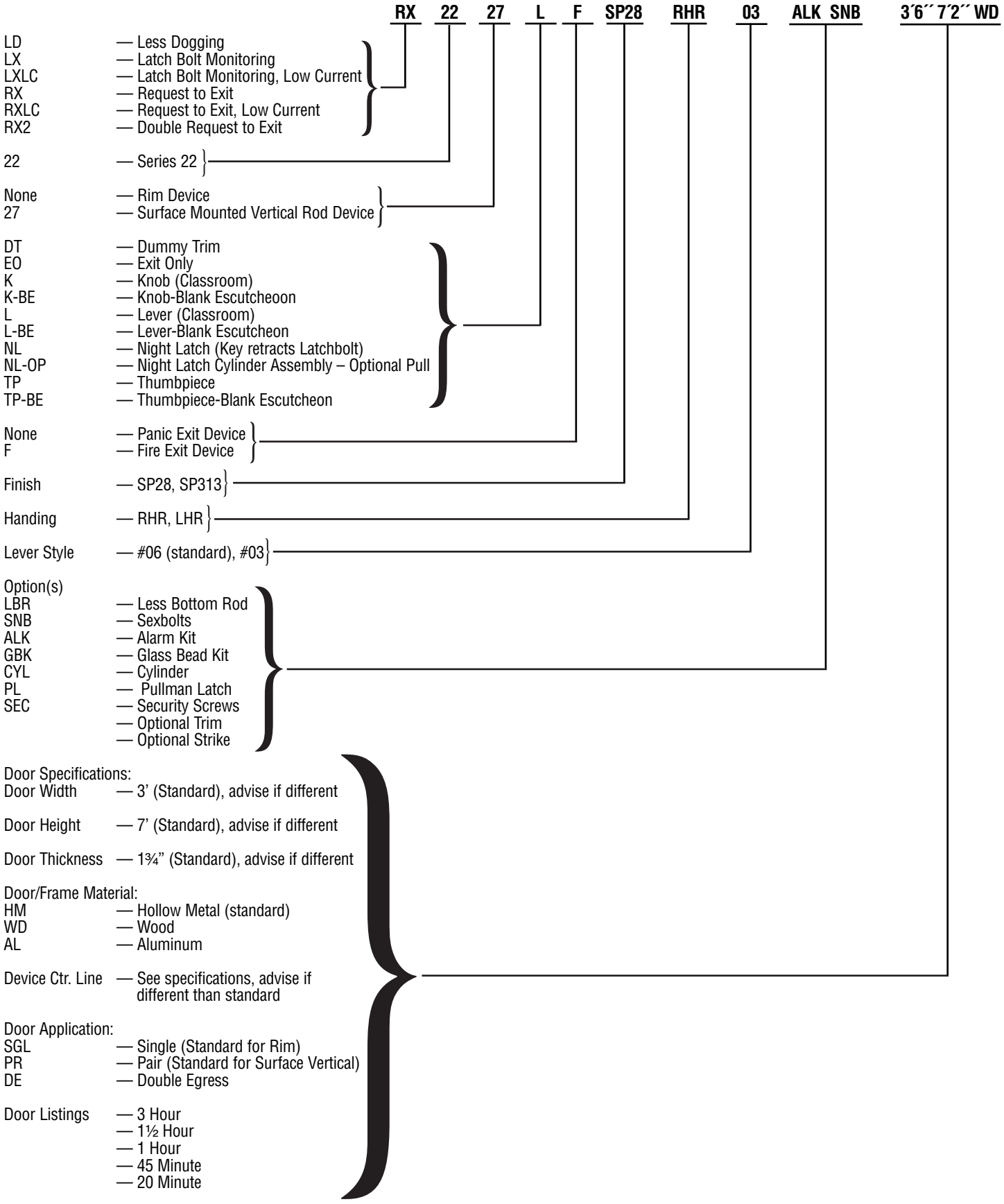


Two surface mounted vertical rod devices—same direction, panic or fire device (do not use with overlapping astragal)



Two FEH vertical rods with auxiliary fire latch—LBR option

Nomenclature – How To Order



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Finishes*



Color	US Number	BHMA Number
Chromium, Polished	US26	625
Anodized, Aluminum	US28	628
Chromium, Dull	US26D	626
Brass, Polished	US3	605
Brass, Dull	US4	606
Bronze, Dull	US10	688
Anodized Duranodic (Dark Bronze)	313AN	710
Anodized Black	315AN	—

Pushpad Options — Knurled —
Embossed "Push," bronze or stainless steel,
Braille (Caution-Stairwell), satin stainless steel
SS – (EMERGENCY EXIT – PUSH TO OPEN AND SOUND ALARM)

*** NOTE:** Durable powder coated finishes available at specific special request. PLEASE CONTACT FACTORY.

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Introduction

The proper selection and application of exit hardware, in addition to safety, are major concerns to all responsible manufacturers. Exit devices are a critical part of a door opening or access system and will provide safe and reliable service when properly applied and maintained. It is the policy of Von Duprin to design and manufacture exit devices to a high standard of quality and reliability in accordance with accepted U.S. domestic and international standards. All 33A and 35A series exit devices are UL listed for Panic Exit or Fire Exit Hardware, and are tested in accordance to ANSI A156.3, 1994, Grade I.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended that whenever an unusual application condition exists, or when any modification of a product is considered, that our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.



33A Series features grooved mechanism case.

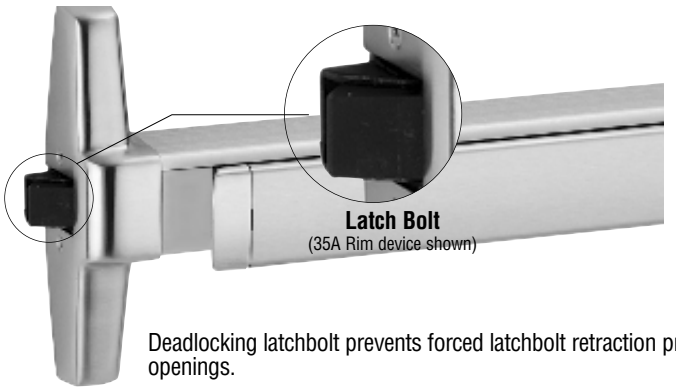


35A Series features smooth mechanism case.

Von Duprin pushpad exit devices are available in two external surface styles, designated 33A series and 35A series.

The two styles are mechanically and dimensionally identical and provide a wide selection of appearance options.

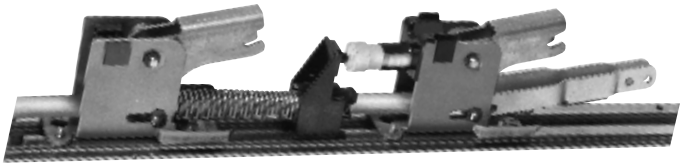
Deadlocking Latchbolt



Latch Bolt
(35A Rim device shown)

New!

Deadlocking latchbolt prevents forced latchbolt retraction providing higher security for your openings.



The Quiet One®

A fluid dampener decelerates the pushpad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all 33A/35A series exit devices.





1439 Roller

33A and 35A for all types of single and double doors with mullion, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 35A has a smooth mechanism case and the 33A has grooved case. The rim device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

33A/35A fits door stiles as narrow as 1 ¾" (44mm). Newly designed device has a one piece center case cover.

The 33A/35A devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See inside cover for finish chips.

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	1439 – Dull Black Optional Strikes – see page 20	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging, LD Less Dogging	see page 26 see page 26
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction GBK Glass Bead Kit	see page 26 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking, ¾" (19mm) throw	
Device Centerline from Finished Floor	39 13/16" (1011 mm) 39 11/16" (1008 mm) with Mullion	
Center Case Dimensions	8 3/16" x 2 13/32" x 1 9/16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)	

See page 31 for How to Order specification

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	Exit Only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required
				
Product Description	33A-EO 35A-EO	33A-DT 35A-DT	33A-NL 35A-NL	33A-NL-OP 35A-NL-OP
Trim Description	—	386DT	386NL	388
Base Size	—	7 15⁄32"h x 1 5⁄8"w (*190x41mm*)	7 15⁄32"h x 1 5⁄8"w *(190x41mm)*	7 1⁄2"h x 1 11⁄16"w *(190x43mm)*
Grip Size	—	8 1⁄2"h x 4 5⁄16"w (*216x110mm)*	8 1⁄2"h x 4 5⁄16"w *(216x110mm)*	—
Projection	—	2 7⁄16" (*62mm)*	2 7⁄16" (*62mm)*	1" (*25mm)*
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See page 19)	—	x360L-DT x550DT x IVES 8190	—	X550DT x IVES 8190 10”

	Lever Key Locks and Unlocks	**Lever Blank Escutcheon** Always Operable (No Cylinder)	**Thumbturn** Key Locks and Unlocks	**Thumbturn** Always Operable (No Cylinder)
				
Product Description	33A-L 35A-L	33A-L-BE 35A-L-BE	33A-T 35A-T	33A-T-BE 35A-T-BE
Trim Description	360L	360L-BE	360T	360T-BE
Base Size	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm)*	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm)*	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm)*	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm)*
Grip Size	—	—	—	—
Projection	3 (*76mm)*	3" (*76mm)*	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*
ANSI Function	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	1 1⁄4" Mortise	—	1 1⁄4" Mortise	—
Optional Trim (See page 19)	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate

For optional trims and functions see page 19



27 Top Latch





27 Bottom Latch



266
Top Strike



248L-4
Bottom Strike for use with Threshold



304L
Bottom Strike

3327A and 3527A for all types of single and double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 3527A has a smooth mechanism case and the 3327A has grooved case. The surface vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3327A/3527A fits door stiles as narrow as 1 ¾" (44mm). Newly designed device has a one piece center case cover.

The 3327A/3527A devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 266 – Dull Black, Bottom – 248L4 & 304L – Unfinished Optional Strikes – see page 20	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging LD Less Dogging	see page 26 see page 26
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction LBR Less Bottom Rod GBK Glass Bead Kit PL Pullman Latch	see page 26 see page 27 see page 27 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device) #325 SNB furnished for top and bottom latches	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8 3⁄16" x 2 13⁄32" x 1 9⁄16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top and Bottom Latch	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	½" square tubing, standard rods accommodate 7'(2134mm) door Top rod length is 34 15⁄16" (887mm) Bottom rod length is 31 ¼"(794mm) Extension rods available 1' (205mm) or 3'(914mm) for doors over 7' One piece top rod available for 8'(2438mm)-10'(3048mm) door	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged	**Night Latch** Key retracts latchbolt	**Night Latch** Key retracts latchbolt Optional Pull Required	**Thumbturn** Key locks & unlocks
					
Product Description	3327A-EO 3527A-EO	3327A-DT 3527A-DT	3327A-NL 3527A-NL	3327A-NL-OP 3527A-NL-OP	3327A-TL 3527A-TL
Trim Description	—	386DT	386NL	388	374T x 386
Base Size	—	7 15⁄32"h x 1 5⁄8"w (*190x41mm*)	7 15⁄32"h x 1 5⁄8"w (*190x41mm*)	7 1⁄2"h x 1 11⁄16"w (*190x43mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)
Grip Size	—	8 1⁄2"h x 4 5⁄16"w (*216x110mm*)	8 1⁄2"h x 4 5⁄16"w (*216x110mm*)	—	—
Projection	—	2 7⁄16" (*62mm*)	2 7⁄16" (*62mm*)	1" (*25mm*)	1 13⁄16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	——	x550 DT x IVES 8190 10"	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder)	**Lever** Key Locks & Unlocks	**Lever-Blank Escutcheon** Always Operable (No Cylinder)	**Thumbturn** Key Locks & Unlocks	**Thumbturn** Always Operable (No Cylinder)
					
Product Description	3327A-TL-BE 3527A-TL-BE	3327A-L 3527A-L	3327A-L-BE 3527A-L-BE	3327A-T 3527A-T	3327A-T-BE 3527A-T-BE
Trim Description	374T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)
Grip Size	8 1⁄2"h x 4 5⁄16"w (*216x110mm*)	—	—	—	—
Projection	1 13⁄16" (*46mm*)	3" (*76mm*)	3" (*76mm*)	1 13⁄16" (*46mm*)	1 13⁄16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
374T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19

27 Top Latch





3327A-F and 3527A-F for all types of double doors up to 8' x 10' (2438mm x 2540mm), UL listed for Fire Exit Hardware. **See page 28 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 3527A-F has a smooth mechanism case and the 3327A-F has grooved case. The surface vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3327A-F/3527A-F fits door stiles as narrow as 2 3⁄16"(56 mm). Newly designed device has a one piece center case cover.

The 3327A-F/3527A-F devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.



27 Bottom Latch



299F
Top Strike



304L
Bottom Strike for use with Threshold



499F
(LBR only)

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 299F(499F LBR) – Dull Black, Bottom – 304L – Unfinished Optional Strikes – see page 20	
Dogging Feature	No mechanical Dogging, EL option available	
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction **LBR Less Bottom Rod** GBK Glass Bead Kit	see page 26 **see page 27** see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device) #325 SNB furnished for top and bottom latches	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8 3⁄16" x 2 13⁄32" x 1 9⁄16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top and Bottom Latch	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	½" square tubing, standard rods accommodate 7'(2134mm) door Top rod length is 34 15/16" (887mm) Bottom rod length is 31 ¼"(794mm) Extension rods available 1' (205mm) or 3'(914mm) for doors over 7' One piece top rod available for 8'(2438mm)-10'(3048mm) door	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged (Not recommended for Fire Device) 	**Night Latch** Key retracts latchbolt 	**Night Latch** Key retracts latchbolt Optional Pull Required 	**Thumbturn** Key locks & unlocks 
Product Description	3327A-EO-F 3527A-EO-F	3327A-DT-F 3527A-DT-F	3327A-NL-F 3527A-NL-F	3327A-NL-OP-F 3527A-NL-OP-F	3327A-TL-F 3527A-TL-F
Trim Description	—	386DT	386NL	388	374T x 386
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16" (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1 1/4" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	——	x550 DT x IVES 8190 10"	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder) 	**Lever** Key Locks & Unlocks 	**Lever-Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbturn** Key Locks & Unlocks 	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder) 
Product Description	3327A-TL-BE-F 3527A-TL-BE-F	3327A-L-F 3527A-L-F	3327A-L-BE-F 3527A-L-BE-F	3327A-T-F 3527A-T-F	3327A-T-BE-F 3527A-T-BE-F
Trim Description	374T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1 1/4" Mortise	—	1 1/4" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
374T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19

47 Top Latch





3347A and 3547A for all types of single and double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 3547A has a smooth mechanism case and the 3347A has grooved case. The concealed vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3347A/3547A fits door stiles as narrow as 1 ¾"(44 mm), wood door stiles as narrow as 4"(102mm). Newly designed device has a one piece center case cover.

The 3347A/3547A devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.



47 Bottom Latch

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 338 – Unfinished, Bottom – 385A – Unfinished Optional Strikes – see page 20	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging LD Less Dogging	see page 26 see page 26
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction LBR Less Bottom Rod GBK Glass Bead Kit PL Pullman Latch	see page 26 see page 27 see page 27 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006mm) Standard, Adjustable from 35 5/8"(905mm) to 49 5/8"(1260mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8 3/16" x 2 13/32" x 1 9/16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8"(2027mm) to 8'4"(2533mm) Bottom rod adjustable from 35 ⅝"(905mm) to 49 ⅝"(1260mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)	



338
Top Strike



385A
Bottom Strike



283

For use with wood frame

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged 	**Night Latch** Key retracts latchbolt 	**Night Latch** Key retracts latchbolt Optional Pull Required 	**Thumbturn** Key locks & unlocks 
Product Description	3347A-EO 3547A-EO	3347A-DT 3547A-DT	3347A-NL 3547A-NL	3347A-NL-OP 3547A-NL-OP	3347A-TL 3547A-TL
Trim Description	—	386DT	386NL	388	376T x 386
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16"w (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	—	x550 DT x IVES 8190 10"	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder) 	**Lever** Key Locks & Unlocks 	**Lever-Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbturn** Key Locks & Unlocks 	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder) 
Product Description	3347A-TL-BE 3547A-TL-BE	3347A-L 3547A-L	3347A-L-BE 3547A-L-BE	3347A-T 3547A-T	3347A-T-BE 3547A-T-BE
Trim Description	376T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
376T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19



47 Top Latch





47 Bottom Latch



338
Top Strike



385A
Bottom Strike

3347A-F and 3547A-F for all types of double doors up to 8' x 10' (2438mm x 2540mm), UL listed for Fire Exit Hardware. **See page 28 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 3547A-F has a smooth mechanism case and the 3347A-F has grooved case. The concealed vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3347A-F/3527A-F fits door stiles as narrow as 3 ½"(90mm). Newly designed device has a one piece center case cover.

The 3347A-F/3547A-F devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 338 – Unfinished, Bottom – 385A – Unfinished Optional Strikes – see page 20	
Dogging Feature	No mechanical Dogging, EL option available	
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction **LBR Less Bottom Rod** GBK Glass Bead Kit	see page 26 **see page 27** see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8 3⁄16" x 2 13⁄32" x 1 9⁄16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8"(2027mm) to 8'4"(2533mm) Bottom rod adjustable from 35 ⅝"(905mm) to 49 ⅝"(1260mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged (Not recommended for Fire Device) 	**Night Latch** Key retracts latchbolt 	**Night Latch** Key retracts latchbolt Optional Pull Required 	**Thumbturn** Key locks & unlocks 
Product Description	3347A-EO-F 3547A-EO-F	3347A-DT-F 3547A-DT-F	3347A-NL-F 3547A-NL-F	3347A-NL-OP-F 3547A-NL-OP-F	3347A-TL-F 3547A-TL-F
Trim Description	—	386DT	386NL	388	376T x 386DT
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16"w (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	—	x550 DT x IVES 8190 10”	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder) 	**Lever** Key Locks & Unlocks 	**Lever-Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbturn** Key Locks & Unlocks 	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder) 
Product Description	3347A-TL-BE-F 3547A-TL-BE-F	3347A-L-F 3547A-L-F	3347A-L-BE-F 3547A-L-BE-F	3347A-T-F 3547A-T-F	3347A-T-BE-F 3547A-T-BE-F
Trim Description	376T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
376T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19



48 Top Latch





48 Bottom Latch



338
Top Strike



385A
Bottom Strike

3348A and 3548A for all types of single and double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 3548A has a smooth mechanism case and the 3348A has grooved case. The concealed vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3348A/3548A fits door stiles as narrow as 1 ¾"(44 mm). Newly designed device has a one piece center case cover.

The 3348A/3548A devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 338 – Unfinished, Bottom – 385A – Unfinished Optional Strikes – see page 20	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging LD Less Dogging	see page 26 see page 26
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction GBK Glass Bead Kit	see page 26 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ¾" (19mm) throw Deadlocking Anti-friction Top & Bottom Bolt 1½" (38mm) throw	
Device Centerline from Finished Floor	39 5/8" (1006mm) Standard, Adjustable from 35 5/8"(905mm) to 49 5/8"(1260mm)	
Door Undercut	¾" (19mm)	
Center Case Dimensions	8 3/16" x 2 13/32" x 1 9/16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8"(2027mm) to 8'4"(2533mm) Bottom rod adjustable from 35 5/8"(905mm) to 49 5/8"(1260mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)	

See page 31 for How to Order specification

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	Exit Only	**Dummy Trim** Pull when dogged	**Night Latch** Key retracts latchbolt	**Night Latch** Key retracts latchbolt Optional Pull Required	**Thumbturn** Key locks & Unlocks
					
Product Description	3348A-EO 3548A-EO	3348A-DT 3548A-DT	3348A-NL 3548A-NL	3348A-NL-OP 3548A-NL-OP	3348A-TL 3548A-TL
Trim Description	—	386DT	386NL	388	376T x 386
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16"w (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	—	x550 DT x IVES 8190 10"	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder)	**Lever** Key Locks & Unlocks	**Lever-Blank Escutcheon** Always Operable (No Cylinder)	**Thumbturn** Key Locks & Unlocks	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder)
					
Product Description	3348A-TL-BE 3548A-TL-BE	3348A-L 3548A-L	3348A-L-BE 3548A-L-BE	3348A-T 3548A-T	3348A-T-BE 3548A-T-BE
Trim Description	376T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
376T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19

48F Top Latch





3348A-F and 3548A-F for all types of double doors up to 8' x 10' (2438mm x 2540mm), UL listed for Fire Exit Hardware. **See page 28 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 3548A-F has a smooth mechanism case and the 3348A-F has grooved case. The concealed vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3348A-F/3548A-F fits door stiles as narrow as 3 ½"(90mm). Newly designed device has a one piece center case cover.

The 3348A-F/3548A-F devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.



48F Bottom Latch



338
Top Strike



385A
Bottom Strike

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 338 – Unfinished, Bottom – 385A – Unfinished Optional Strikes – see page 20	
Dogging Feature	No mechanical Dogging, EL option available	
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction GBK Glass Bead Kit	see page 26 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ¾" (19mm) throw Deadlocking Anti-friction Top & Bottom Bolt 1½" (38mm) throw	
Device Centerline from Finished Floor	39 5/8" (1006mm) Standard, Adjustable from 35 5/8" (905mm) to 49 5/8" (1260mm)	
Door Undercut	¾" (7mm)	
Center Case Dimensions	8 3/16" x 2 13/32" x 1 9/16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8"(2027mm) to 8'4"(2533mm) Bottom rod adjustable from 35 5/8"(905mm) to 49 5/8"(1260mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)	

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged (Not recommended for Fire Device) 	**Night Latch** Key retracts latchbolt 	**Night Latch** Key retracts latchbolt Optional Pull Required 	**Thumbturn** Key locks & Unlocks 
Product Description	3348A-EO-F 3548A-EO-F	3348A-DT-F 3548A-DT-F	3348A-NL-F 3548A-NL-F	3348A-NL-OP-F 3548A-NL-OP-F	3348A-TL-F 3548A-TL-F
Trim Description	—	386DT	386NL	388	376T x 386
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16"w (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	—	x550 DT x IVES 8190 10”	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder) 	**Lever** Key Locks & Unlocks 	**Lever-Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbturn** Key Locks & Unlocks 	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder) 
Product Description	3348A-TL-BE-F 3548A-TL-BE-F	3348A-L-F 3548A-L-F	3348A-L-BE-F 3548A-L-BE-F	3348A-T-F 3548A-T-F	3348A-T-BE-F 3548A-T-BE-F
Trim Description	376T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
376T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19

Lever Design Options



#01



#02



#03



#05



#06
Standard



#07



#12
Handed



#16



#17



#18

To order, specify:

1. Use suffix lever number, example 3327A-L x 03.

Operation Options — 360 Series Lever and Thumbturn



Standard operation, key locks and unlocks lever or thumbturn. Use dogged* mortise cylinder straight cam. (Classroom)



Night latch operation, lever or thumbturn retracts latch for NL function. Use undogged* mortise cylinder straight cam. (Storeroom)



Blank escutcheon, lever or thumbturn always active. Use BE suffix, i.e., 360L-BE. (Passage)



Blank Escutcheon, rigid lever. Use DT suffix, i.e., 360L-DT.

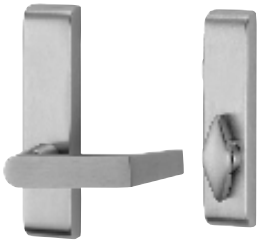
Operation Options — 374T/376T Series Thumbturn Control



Standard operation, key locks and unlocks thumbturn. Optional operation, key unlocks thumbturn, re-locks when key is removed. This operation is created by changing the cylinder plate included with control. Use 1¼" mortise cylinder with a straight cam. Schlage cam reference B502-191.

*** See page 28 for mortise cylinder information.**

E360 Series Controls



Options:

- Available in all device finishes
- 24VDC Solenoid……(.5 amp draw)
- Fail Safe (FS) or Fail Secure (FSE)
- Blank Escutcheon (BE) only

The E360 series controls provide the same choice of lever or thumbturn control of the 33A/35A series exit device series. Additionally, these trims have the advantage of being electrically controllable by a remote switching device, an access control system or automatic fire alarm system. The trim operates with a rotary solenoid that controls the locking cam the same way the standard cylinder works. These trims are available as –BE (Blank Escutcheon) function only. These trims are designed for use with the rim, surface vertical and concealed vertical 33A/35A device series.

To order, specify:

1. FSE or FS
2. Handing (Lever control)
3. EPT-2 Power Transfer or Electric Hinge will be used

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	Lever Key Locks & Unlocks	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt	**Thumbturn** Key Locks & Unlocks	**Thumbturn** Key Locks & Unlocks
					
Trim Description	360L-DT	388 x 550DT	388 x IVES 8190 10”	360T x 550DT	360T x IVES 8190 10”
Base Size	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w (*190x43mm)*	7½"h x 1 11⁄16"w (*190x43mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*
Grip Size	—	—	—	—	—
Projection	3" (*76mm)*	1" (*25mm)*	1" (*25mm)*	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*
ANSI Function	02	03	03	11 or 12 Field Selectable	11 or 12 Field Selectable
Cylinder Type	—	Rim	Rim	1¼" Mortise	1¼" Mortise

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder)	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder)	**Thumbturn** Key Locks & Unlocks	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder)
				
Trim Description	360T-BE x 550DT	360T-BE x IVES 8190 10”	374T or 376T x 392-6	374T-BE or 376T-BE x 392-6
Base Size	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*
Grip Size	—	—	8½"h x 4 5⁄16"w (*216x110mm)*	8½"h x 4 5⁄16"w (*216x110mm)*
Projection	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*
ANSI Function	—	—	11 or 12 Field Selectable	—
Cylinder Type	—	—	1¼" Mortise	—

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
374T or 376T used on Wood Door require #10-WDA cover plate.

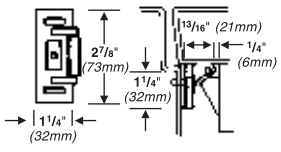
Strike Application/Minimum Stile

Device Type	Standard				Optional			
	Single door		Double door		Single door		Double door	
	Strike	Stile	Strike w/Mullion*	Stile	Strike	Stile	Strike w/Mullion*	Stile
33A **35A**	1439	1¾" *(44mm)*	1408 x 5754	1¾" *(44mm)*	299 1410 1606	2 ¾" *(70mm)* 1 ¾" *(44mm)* 2 ½" *(64mm)*	299 x 5654 299 x 4954 1606 x 1654	2 5⁄8" *(67mm)* 3 5⁄16" *(84mm)* 2 ¾" *(70mm)*
3327A **3527A**	266 (Top) 304L (Bottom) 248L-4 (Bottom)	1¾" *(44mm)*	266 (Top) 304L (Bottom) 248L-4 (Bottom)	1¾" *(44mm)*	299 (Top) 385A (Bottom) 260U (Top) 385A (Bottom)	3 1⁄8" *(79mm)* 2 1⁄8" *(54mm)*	299 (Top) 385A (Bottom) 260U (Top) 385A (Bottom)	3 1⁄8" *(79mm)* 2 1⁄8" *(54mm)*
3327A-F **3527A-F**	———	———	299F (Top) 304L (Bottom)	2 3⁄16" *(56mm)*	———	———	———	———
3327A-LBR-F	———	———	499F (Top) (Req. Auxiliary Fire Latch)	3 5⁄8" *(92mm)*	———	———	———	———
3347A **3547A** **3348A** **3548A**	338 (Top) 385A (Bottom)	2 ½" *(64mm)*	338 (Top) 385A (Bottom)	1 ¾" *(44mm)*	304L (Bottom)	2 ½" *(64mm)*	304L (Bottom)	2 ½" *(64mm)*
3347A-F **3547A-F** **3348A-F** **3548A-F**	———	———	338 (Top) 385A (Bottom)	3 ½" *(89mm)*	———	———	304L (Bottom)	3 ½" *(89mm)*
3347A-LBR **3547A-LBR** **3348A-LBR** **3548A-LBR**	338 (Top)	2 ½" *(64mm)*	338 (Top)	2 ½" *(64mm)*	———	———	———	———
3347A-LBR-F **3547A-LBR-F**	———	———	338 (Top)	3 5⁄8" *(92mm)*	———	———	———	———

*Mullion information — Refer to the General and Auxiliary Catalog.

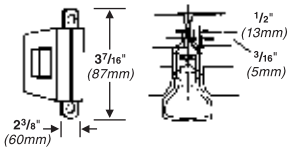
Strikes for Rim Devices

299



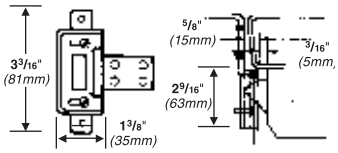
Projection 13⁄16" *(21mm)*

1408



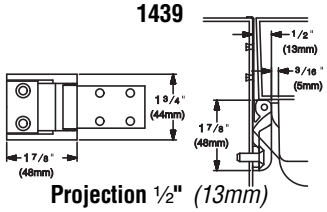
One per pair of doors

1410 — Integral Stop



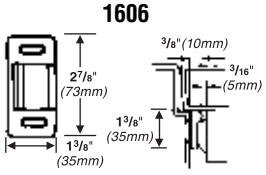
Projection ½" *(13mm)*

1439



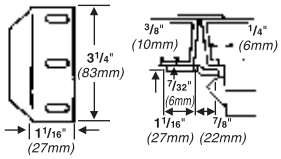
Projection ½" *(13mm)*

1606



Projection ⅜" *(10mm)*

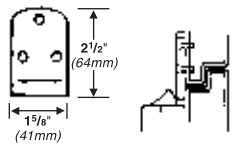
1609



For rim/vertical rod combination — consult factory

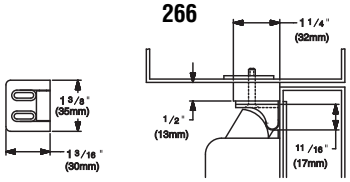
Strikes for Vertical Rod Devices

260U — Flush Transom Only



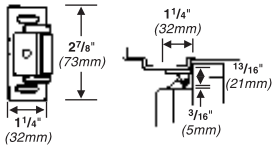
Projection ⅜" *(10mm)*

266



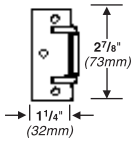
Projection 1¼" *(32mm)*

299



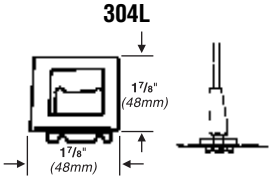
Projection 13⁄16" *(21mm)*

299F



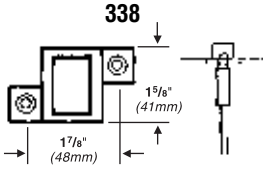
Projection 13⁄16" *(21mm)*

304L



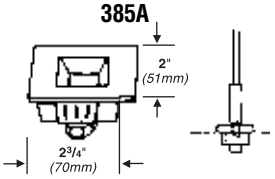
Mortise 13⁄16" *(21mm)*

338



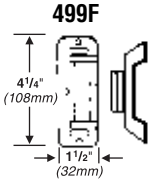
Mortise ⅝" *(16mm)*

385A



Mortise 2 ½" *(64mm)*

499F



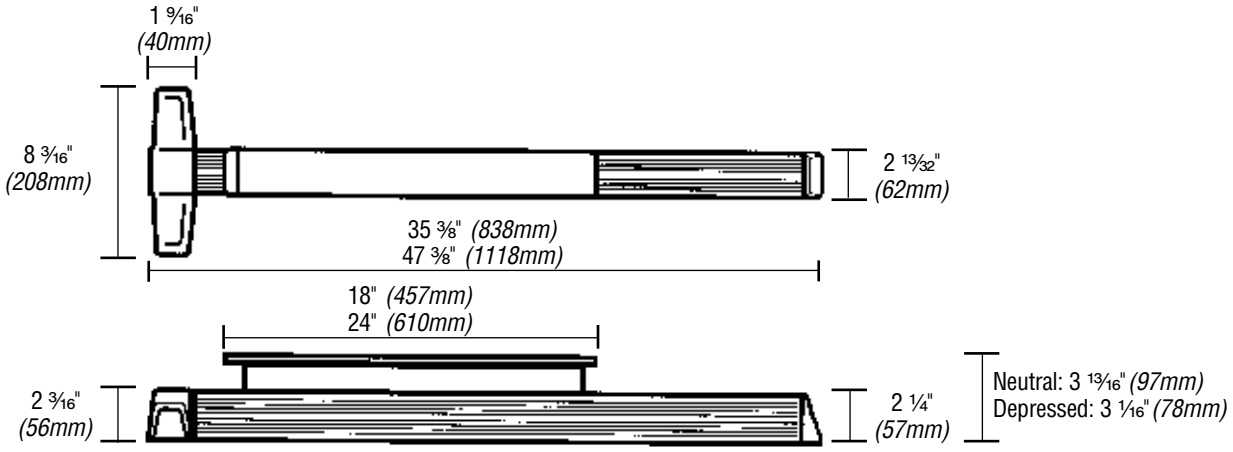
Projection 15⁄16" *(21mm)*

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ANSI Grade, Type & Function

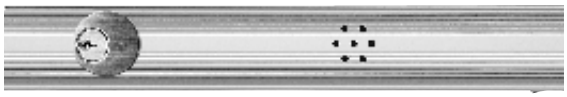
Function	Grade 1, Type 4	Grade 1, Type 5	Grade 1 Type 6, 7 & 8	
01	33A-EO 35A-EO	3327A-EO 3327A-EO-F 3527A-EO 3527A-EO-F	3347A-EO 3347A-EO-F 3348A-EO 3348A-EO-F	3547A-EO 3547A-EO-F 3548A-EO 3548A-EO-F
02	33A-DT 35A-DT	3327A-DT 3527A-DT	3347A-DT 3348A-DT	3547A-DT 3548A-DT
03	33A-NL 33A-NL-OP 35A-NL 35A-NL-OP	3327A-NL-OP 3527A-NL-OP 3327A-NL-OP-F 3527A-NL-OP-F 3527A-NL 3327A-NL-F 3527A-NL 3527A-NL-F	3347A-NL-OP 3347A-NL-OP-F 3348A-NL-OP 3348A-NL-OP-F 3347A-NL 3347A-NL-F 3348A-NL 3348A-NL-F	3547A-NL-OP 3347A-NL-OP-F 3548A-NL-OP 3548A-NL-OP-F 3547A-NL 3547A-NL-F 3548A-NL 3548A-NL-F
08-09	33A-L 35A-L	3327A-L 3327A-L-F 3527A-L 3527A-L-F	3347A-L 3347A-L-F 3348A-L 3348A-L-F	3547A-L 3547A-L-F 3548A-L 3548A-L-F
11-12	33A-TL 35A-TL	3327A-TL 3327A-TL-F 3527A-TL 3527A-TL-F	3347A-TL 3347A-TL-F 3348A-TL 3348A-TL-F	3547A-TL 3547A-TL-F 3548A-TL 3548A-TL-F

Dimensions



Electrical Options

Alarm Kit – ALK



The ALK battery alarm kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key. Thus allowing the exit device to be set in an armed or disarmed mode. The horn is rated at 85 decibel.

The key switch uses a standard 1¼" (32mm) mortise cylinder with a straight cam (Schlage Cam reference B502-191). The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal.

Also can be powered using the PS9 Power Supply. See PS9 for additional information.

Alarm kits are available with a choice of two switch kits, RX or LX. RX monitors the touchpad and is furnished standard. LX optional latch bolt monitoring is recommended for use with surface vertical rod exit devices. Specify ALK-LX.

The ALK is available in two styles, 33A/99ALK, grooved cover and 35A/98ALK, smooth cover.

The ALK includes "EMERGENCY EXIT ONLY. ALARM WILL SOUND" decal for application on door, or the SS push bar trim can be used instead of the door decal,specify SS push bar trim.

The ALK is available with 2 optional circuit boards. External Inhibit (EI) allows for the use of external switch to be used to arm, disarm and reset the alarm. Auto Reset (AR) rearms the alarm after a preset time. AR is available in three factory set times – 1½, 3 or 6 minutes.

To Order, Specify:

1. External Inhibit – ALK-EI
2. Auto Reset – ALK-AR3

When the ALK is used, standard dogging is removed. If cylinder dogging is required there are two choices. Special center case dogging is available or for 3' or 4' doors the ALK can be moved to the hinge side of the device and standard cylinder dogging can be added.

To Order, Specify:

1. Standard, 33ANL ALK
2. Cylinder Dogging, CD33ANL ALK

Minimum Door Sizes

Device	3' *(914mm)* Length	4' (*1219mm)* Length
33A/35A	2'9" *(838mm)*	3'3" *(991mm)*
3327A/3527A	2'8" *(813mm)*	3'2" *(966mm)*
3347A/3347A-F 3547A/3547A-F	2'8" *(813mm)*	3'2" *(966mm)*
3348A/3348A-F 3547A/3547A-F	2'8" *(813mm)*	3'2" *(966mm)*

Request to Exit — RX



The RX (Request to Exit) feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the pushpad.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The RX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resistive maximum).

The RX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

- Standard – Use prefix RX, example RX33AEO
- Low Current – Use prefix RX-LC, example RX-LC35AEO

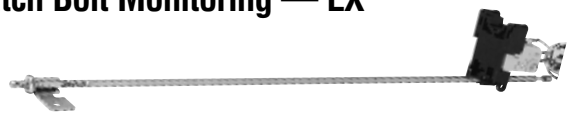
Double Request to Exit — RX2

The RX2 feature uses 2 RX switches. Also available with the Low Current (LC) switch.

To Order, Specify:

- Standard – Use prefix RX2, example RX233AEO
- Low Current – Use prefix RX2-LC, example RX2-LC35AEO

Latch Bolt Monitoring — LX



The LX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the latch bolt.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The LX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resistive maximum).

The LX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

- Standard – Use prefix LX, example LX33AEO
- Low Current – Use prefix LX-LC, example LX-LC35AEO

Electrical Rating for all Switches:

- Standard – up to 0.5 Amp @ 24VDC Maximum
- Low Current (LC) - up to .05 Amp @ 24VDC Maximum

Note: All Switches can be either factory or field installed

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Electrical Options

Electric Latch Retraction — EL



The EL feature allows for the remote unlatching of exit devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt, either for momentary unlatching, or for extended periods of time. The EL feature is an alternative to manual dogging. If manual hex-key dogging is required, specify HD-EL.

EL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an **automatic fire alarm system.**

UL approved for Class II circuit applications.

The EL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS873 power supply.

The PS873 with the 871-2 option card is minimum option card required. Other option cards available for other functions, see PS873 power supply for additional information.

Solenoid Specifications:

Continuous Duty — 24 VDC

Current Inrush — 16 Amps

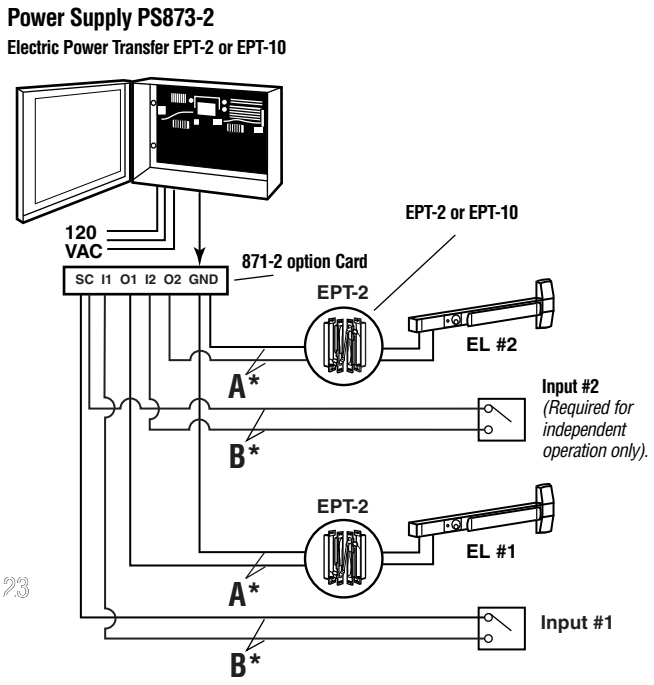
Current Holding — 0.3 Amps

To order, specify:

Standard — Use prefix EL, example EL33AL.

Hex Key dogging — Use prefix HD-EL, example HD-EL33AL

Popular EL Application



Signal Switch — SS



Monitors pushpad and latch bolt

The SS feature is used to signal the unauthorized use of an opening. This device is equipped with two internal SPDT switches. One switch monitors both the pushpad and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1 ¼" *(32mm)* mortise with straight cam for alarm "bypass." (Schlage cam reference B502-191). The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Pushpad reads:
"EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM." Pushpad is only available in US32D finish with red silk-screened lettering.

To Order, Specify:

1. Prefix SS, example SS33AL.
2. Handing Required, LHR or RHR.

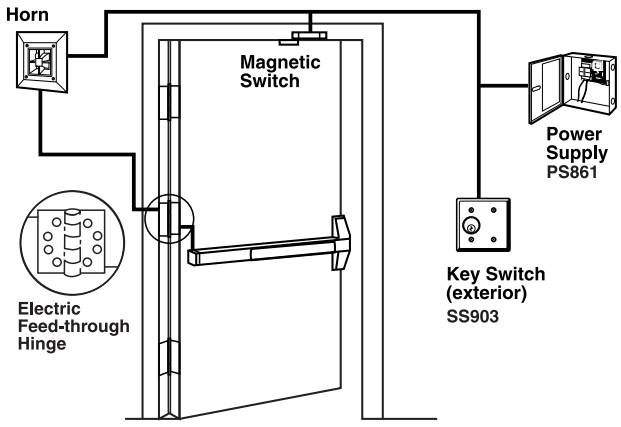
Electrical Ratings:

Up to 2.0 AMPS @ 24VDC

Popular SS Application

Unauthorized use of this opening will activate the local horn.

The key switch permits inhibiting this system for authorized entry.



EL Device Wire Selection Size

A*	Run Length	EL Device w/EPT or Door Loop
	0-100 ft.	14 gauge
	0-200 ft.	12 gauge

A*	Run Length	EL Device w/Electric Hinge/Pivot
	0-75 ft.	14 gauge
	0-150 ft.	12 gauge

B*	Wire Selection	Switch Wire Size
	1200 ft. Max.	18 gauge

Electrical Accessories

Power Supplies



SERIES PS873

The series PS873 power supply is designed to operate a wide variety of electrical products. EL panics require 871-2 PCB minimum. The regulated output power is field selectable for either 24VDC @ 2 ampere or 12VDC @ 4 ampere. Standard input 120VAC @ 1.0 ampere or 240VAC @ 0.5 ampere available. Enclosure is 10" high x 12½" wide x 5" deep *(254mm x 323mm x 127mm)*, gray with a hinged cover and constructed of heavy 19 gauge steel. Five ½" x ¾" *(13mm x 19mm)* knockout holes are provided for conduit connection. Terminal block will accept up to 12 gauge wire.

The PS873 can be ordered with three standard options: **Key lock** secures the cover to eliminate tampering and provides safety; **Battery backup** provides two hours backup power at full load during a A.C. power failure. Batteries will automatically recharge when failed power is restored. **Fire Alarm** provides input for a normally closed fire alarm contact. When the fire alarm contact is "open", power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

Eight standard configurations:

PS873	Standard
PS873K	With keylock
PS873B	With battery
PS873BK	With battery and keylock
PS873FA	With fire alarm
PS873K-FA	With keylock and fire alarm
PS873B-FA	With battery and fire alarm
PS873BK-FA	With battery, keylock and fire alarm

The series PS873 is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

Factory or Field Installed Circuit Cards:

871-2, Two Zone controller provides two inputs and two outputs. Will operate one or two EL exit devices. Use suffix "-2" for factory installed, example PS873-2.

873-AL, Alarm function monitors 1 or 2 zones and provides alarm output, upon detecting a door in the open position. Delayed alarming is selectable from 5 to 75 seconds. Use suffix "-AL" for factory installed, example PS873-AL

873-AO, Auto Operator function coordinates the release of one or two locks and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods; by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by a "RX" type input switch. Use suffix "-AO" for factory installed, example PS873-AO

873-SI, Security/Safety Interlock provide interlock function for two zones. When combined with a second 873-SI card, the inter-locking of groups are available in two, three or four zones. Safety interlock is available, consult factory for additional information. Use suffix "-SI" for factory installed, example PS873-SI

873-4TD, Four Zone controller with **Time Delay** provides four inputs and four outputs with time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. Will operate up to 4 EL devices. Use suffix "-4TD" for factory installed, example PS873-4TD

873-AC, Access Control provides supervision of one zone using an electromagnetic lock. Input signals required are: access control contact, motion detector contact, and motion detector override contact. FA, Fire Alarm option is required. Use suffix "-AC" for factory installed, example PS873-AC

Factory Installed Only Circuit Card

873-DE, Delayed Egress provides 15 second delay release from pushbar activation to electro-magnetic lock release. Ideal function for use with Locknetics electromagnetic locks, will operate two zones simultaneously. To operate two separate zones, a second 873-DE card is required. UL listed component, when used as part of a Von Duprin delayed egress system. Use suffix "- DE", example, PS873-DE.

Note: "DE" cards CANNOT be combined with any other optional cards.

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Electrical Accessories

Power Supplies
PS861 Power Supply



Standard
UL Listed
Class 2, Power Supply
UL1012
UL1310

The series PS861 power supply is designed for electric locking or monitoring on single or double door applications. The output power is field selectable for either 24 VDC @ 1 ampere or 12 VDC @ 2 ampere. Standard input 120 VAC @ 0.6 ampere and 240 VAC @ 3.0 ampere available. The terminal block will accept up to 14 gauge stranded wire.

The gray enclosure is 10" x 10" x 4" *(254mm x 254mm x 102mm)*, has a hinged cover, and is constructed of heavy 19 gauge steel. Six ½" *(13mm)* knockout holes are provided for conduit connection.

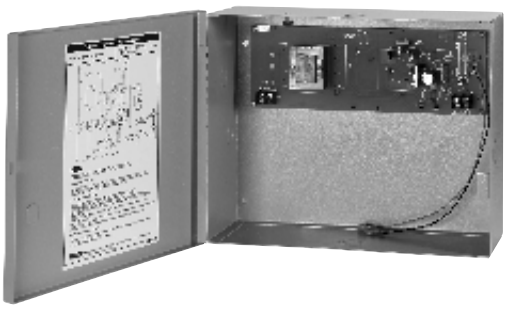
Options include keylock cover or Battery Backup. The pair of batteries, which are sealed lead acid battery packs, will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored.

Four Models:

PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861FA	Fire Alarm
PS861BK	Battery backup and keylock cover
PS861BKFA	Battery backup and keylock cover with FA board (24VDC only)

PS9 Power Supply

The PS9 is an AC power supply that provides 9 VDC power to operate the ALK alarm kit. The unit will power one or two alarm kits. Included is a 9-volt sealed battery that provides backup power in case of an AC power failure.



Electrical Power Transfer — EPT
Pneumatic Transfer – PNT



Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suite for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires. The EPT-2 and EPT-10 are U/L listed as "miscellaneous door accessory".

Pneumatic Controls

PNT-1 is available for pneumatic latch retraction exit devices. Appearance and dimensions are identical to EPT models.

UL Listed for use on firedoors

Door applications:
up to 5" butt hinges – 180˚ swing,
5½" butt hinges – 130˚ swing,
6" butt hinges – 110˚ swing,
¾" butt offset pivots 180˚ swing.

Not for use with swing clear hinges or center-hung pivots.

Finishes

SP28 (sprayed aluminum)

SP313 (sprayed duranodic).

Dimensions

Housing	9" x 1 ¼" x 1 ⅝" *(229mm x 32mm x 38mm)*
EPT-2	Two 18 gauge wires, Up to 2 AMPS @ 24VDC, with a 16 AMPS Maximum Surge
EPT-10	Ten 24 gauge wires, Up to 1 AMPS @ 24VDC, with a 16 AMPS Maximum Surge
PNT-1	5⁄32" Tubing

To order, specify:

1. EPT-2 ,EPT-10 or PNT-1.
2. Finish, SP28 or SP313.

Pneumatic Controlled Exit Devices–PN



The PN feature provides remote latch bolt retraction in hazardous areas where electrically operated devices would not be permitted. The pneumatic solenoid will retract the latch bolt for momentary or prolonged periods. PN exit devices are particularly suited for use with automatic door operators. The PN feature is available on both Panic and Fire Exit Hardware devices.

The PN feature includes a special actuating linkage that gives building owners the option of mechanically or pneumatically dogging the exit device. If manual hex-key dogging is required, specify HD-PN (Dogging the device, whether mechanically or pneumatically, makes the device function as a push/pull unit and reduces the wear on its moving parts.)

When activated pneumatically, the latch bolt(s) of the exit device retract in ½ to 1 ½ seconds. This pneumatic operation uses air pressure ranging from 50 to 100 pounds per square inch.

This product will function only when it is part of a pneumatic system (air compressor, air lines, pneumatic system, etc.). Contact LCN for correct control boxes

To Order, Specify:

- Standard — Use prefix PN, example PN33ANL
- Hex Key Dogging — Use prefix HD-PN, example HD-PN33ANL

Less Dogging – LD

Less Dogging is available in all 33A/35A Panic Exit devices to remove the dogging option.

To Order, Specify:

- Use prefix LD, example LD33AL

Cylinder Dogging — CD



Cylinder dogging is available on all 33A/35A Panic Exit devices to replace the standard hex key dogging. Unit requires a standard 1¼" *(32mm)* mortise cylinder with a straight cam (Schlage Cam B502-191 reference).

To Order, Specify:

- Use prefix, CD, example CD33AL

Cylinder Dogging Kit — CDK

For field conversion, a cylinder dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99CDK or **35A/98CDK**, specify finish.

Hex Key Dogging Kit — HDK

For field conversion, a hex key dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99HDK or **35A/98HDK**, specify finish.

Dummy Pushpad



The 330 dummy pushpad is designed as a companion unit for all 33A devices. The 350 dummy pushpad is a companion unit for all 35A devices. The pushpad is rigid or nonfunctioning. A push/pull operation can be accomplished by using 386DT, 360L-DT, 550DT, 392-6 trim or any Ives Pull.

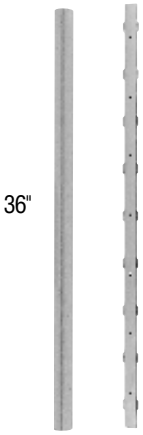
The 330/350 can be equipped with a functional pushpad and will accommodate an RX switch. Specify RX-330. May also be equipped with the RX2, double RX switch. Specify RX2-330

To order, specify:

1. 330 or 350.
2. Size 3' or 4' *(914mm or 1219mm)*
3. Finish, US3, US4, US10, US26, US26D, US28, 313AN, 315AN, 350 Only US32D.

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Vertical Rod and Latch Guard — RG-27

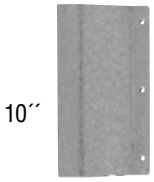


Rod Guard

Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. (If bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.)

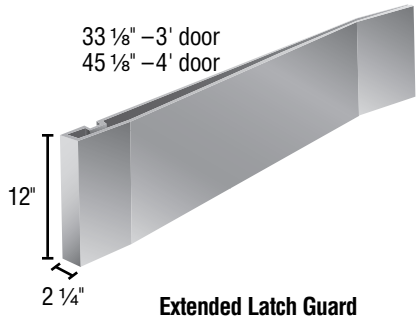
In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easily with the bumpers of a wheelchair. The latch guard portion is 10" high. The standard latch guard features a 45° ramp. The extended latch guard offers a continuous ramp in 3' or 4' widths.

All stainless steel construction in US32D finish. Latch guards can cover latches as large as 1¼"W x 10"H x 1⅞" projection.



Latch Guard

Models
RGO — Rod guard only (Projection 1 3⁄16").
RG-27 — Rod and latch guard.
RG-27-3 — 3' *(914mm)* Rod Guard and Extended Latch Guard.
RG-27-4 — 4' *(1219mm)* Rod Guard and Extended Latch Guard.



Extended Latch Guard

LGO — Latch guard only.
LGO-3 — 3' *(914mm)* Extended latch guard only.
LGO-4 — 4' *(1219mm)* Extended latch guard only.

Note: Not for use on wood fire doors

To Order, Specify:

1. Model number.
2. Handing (except on RGO).
3. Door material if other than Hollow Metal.
4. Optional sex bolt mounting available.

Less Bottom Rod – LBR

LBR option is available, using a spring loaded auxiliary latch bolt installed in the lower door edge. When exposed to heat the auxiliary latch bolt releases, keeping the doors in alignment and closed during a fire. UL listed 3 hours on hollow metal doors double egress, 90 minute swinging same direction, and 20 minutes wood doors (consult wood door manufacturer). Fits door stiles as narrow as 3⅝".

LBR devices must be ordered in pairs or must be used in conjunction with an approved automatic or constant latching flush bolt.

LBR used on non-fire rated devices, the spring loaded auxiliary latch bolt is not required. Device is supplied less bottom rod, latch and strike.

Pullman Latch – PL

When PL is specified the standard latches are replaced with pullman style latches. Pullman latches are always extended and are most commonly used in conjunction with electric strikes and LBR-less bottom rod application. Not available with Fire rated devices. Not recommended where security is of the utmost since latches do not deadlock.

Glass Bead Kit – GBK

Glass bead conversion kits are available for all 33A/35A Series devices for use on doors with raised glass beads. Each kit consists of ¼" *(6mm)* shim sets. GBK for Surface Vertical Rod ships with ⅛" shims for rod guides.

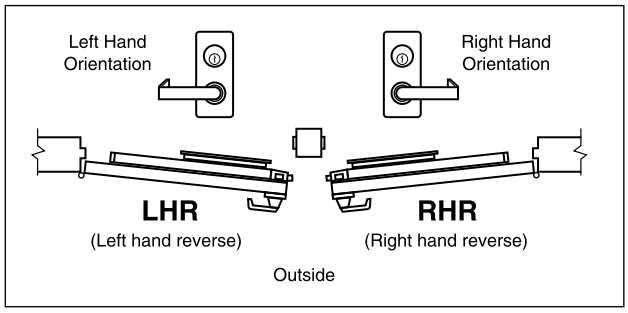
To order, specify:

1. 33AGBK
2. Device type (Rim, Mortise, Surface Vertical Rod, Concealed Vertical Rod)
3. Wood Door, when used with Concealed Vertical Rod

UL Listed — Fire Exit Hardware Label/ Opening Size

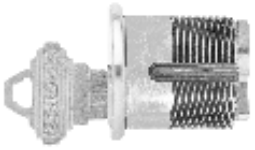
	Double Door	
Exit Device	**Same Direction**	**Double Egress**
3327A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3527A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3347A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3547A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3347A-F-WDC	90 Min. 8' x 9'3"	90 Min. 8' x 9'3"
3547A-F-WDC	90 Min. 8' x 9'3"	90 Min. 8' x 9'3"
3348A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3548A-F	90 Min. 8' x 10'	3 Hour 8' x 10'

Handing of Doors



Cylinders

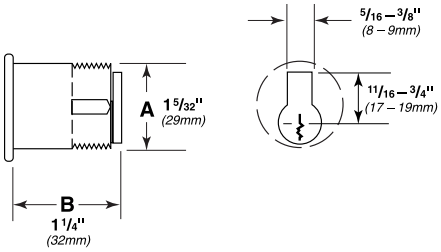
Cylinders are not furnished with device or trim and must be specified when ordering. Rim, surface vertical rod, and concealed vertical rod exit devices use rim type cylinders. **EXCEPTION:** Devices using 360 and 370 controls use 1 ¼" mortise cylinders.

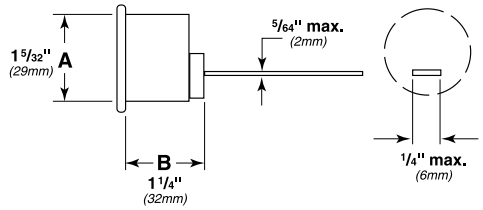


Mortise — 3215 (Schlage B502-191 cam)

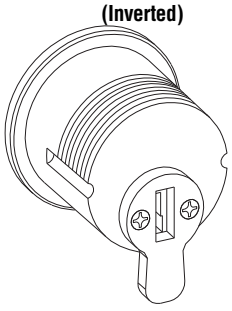


Rim 3216



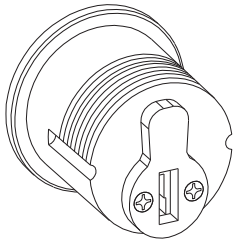


Dogged Cam (Inverted)



For standard locking trim on 360 controls and for Cylinder Dogging.

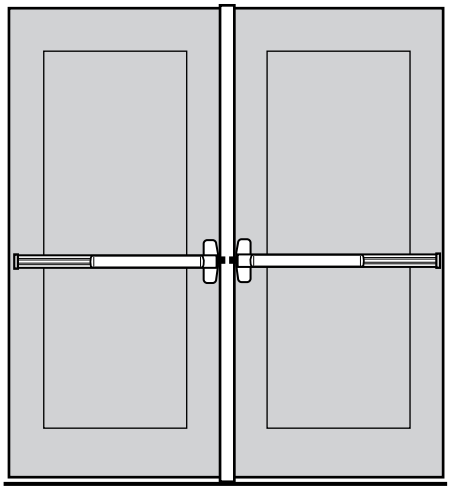
Undogged Cam (Standard Option)



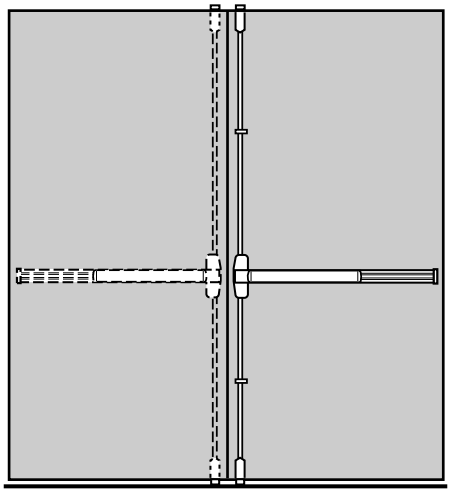
For NL function on 360 controls.

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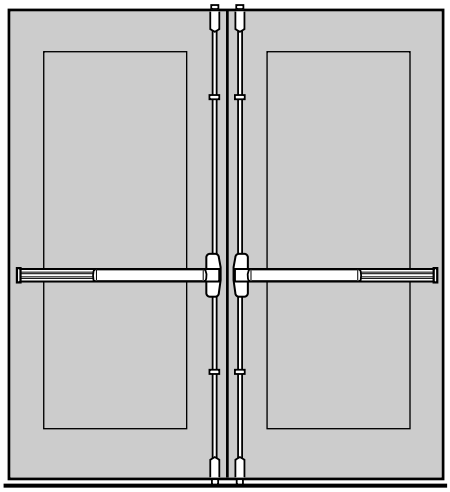
Popular Double Door Applications



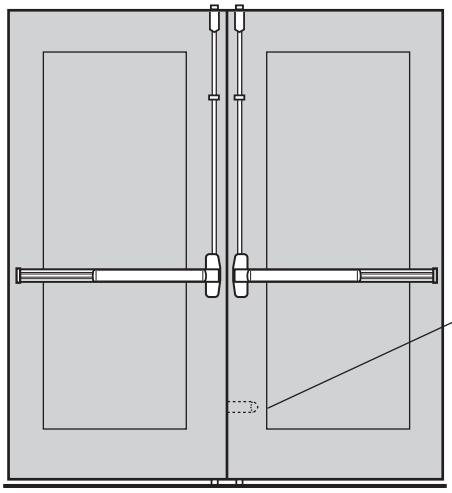
Two rim devices with mullion — same direction



Two vertical rods — double egress



Two vertical rod devices — same direction (do not use with overlapping astragal)



Two FEH vertical rods with auxiliary fire latch— LBR option

Rim devices, specify:

1. Exit device model number with trim selection.
   Examples: 33A-EO (exit only with no outside trim).
   33A-NL (includes 386NL trim). 33A-NL-OP
   (includes the 388 trim less pull).
2. Size 4' *(1219mm)* for door sizes 3'1" *(940mm)* to 4' *(1219mm)*.
   Size 3' *(914mm)* for door sizes 2'6" *(792mm)* to 3' *(914mm)*
   is shipped standard.
3. Door thickness if other than 1 ¾" *(44mm)*.
4. Door and frame material if other than hollow metal.
5. Finish, see inside front cover.
6. Handing required on "L," "SS," or "386NL." Specify LHR or RHR.
   See page 28.

Vertical rod devices, specify:

1. Exit device model number with trim selection.
   Examples: 3327A-EO (exit only with no outside trim.)
   3327A-TL-OP (includes 360T Control) 3327A-TL (includes 374T
   and 386DT).
2. Size 4' *(1219mm)* for door sizes 3'1" *(940mm)* to 4' *(1219mm)*.
   Size 3' *(914mm)* for door sizes 2'6" *(792mm)* to 3' *(914mm)*
   is shipped standard.
3. Door thickness if other than 1 ¾" *(44mm)*.
4. Door height if greater than 7' *(2134mm)* surface vertical rod
   device (8' 4" for concealed devices), extension rods must be
   ordered.
5. Door and frame material if other than hollow metal.
6. Finish, see inside front cover.
7. Handing required on "L," "SS," or "386NL." Specify LHR or RHR.
   See page 26.

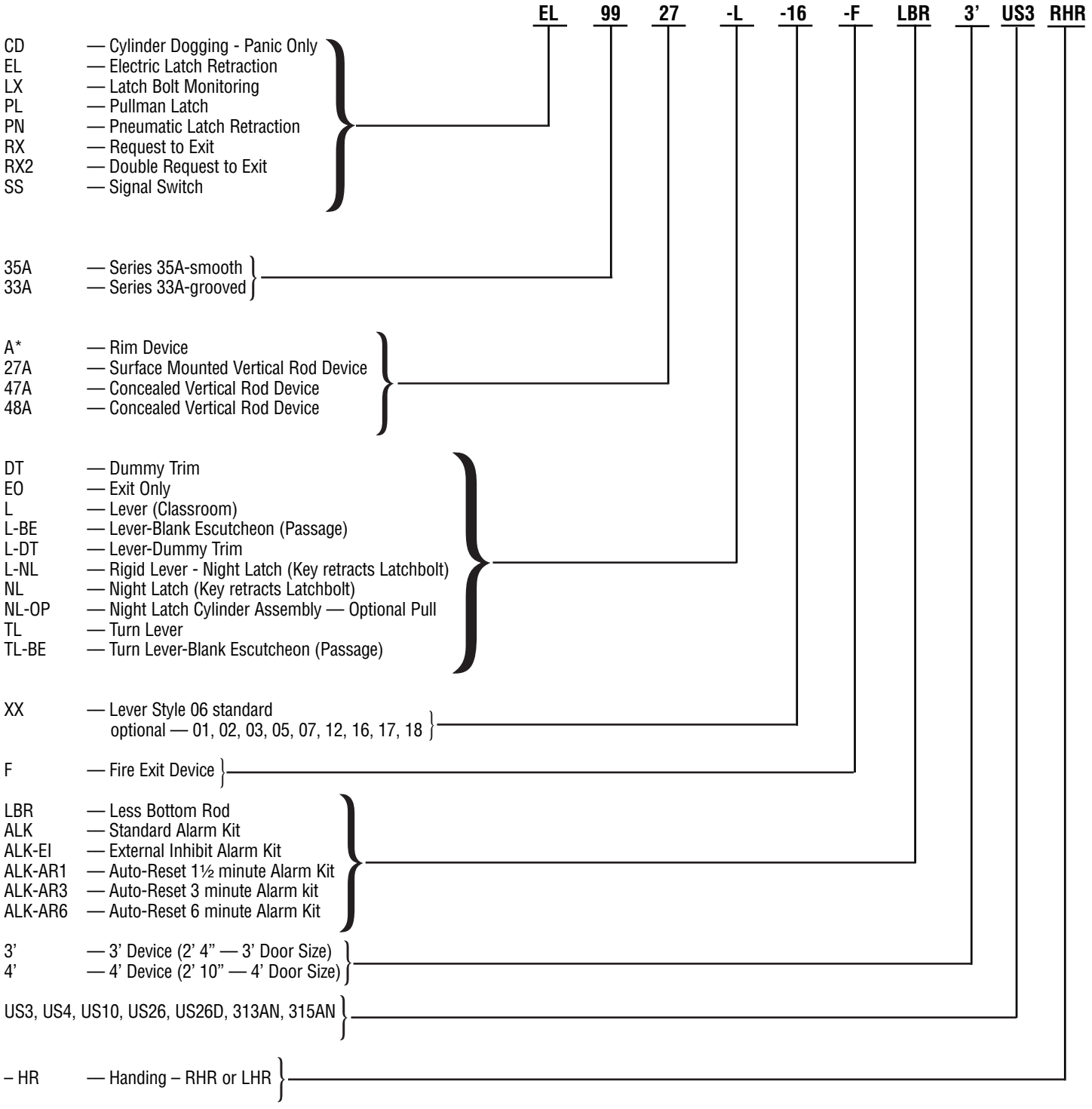
Pullman latches are optional for 3327A/3527A devices. Latchbolts remain extended at all times. Specify "Pullman Latch" when required.

Device trim, Cross-reference:

33/35 Devices	Status	33A/35A Devices
333NL-TP	Replaced	386NL
333DT	Replaced	386DT
337NL-TP	Replaced	386NL
337DT	Replaced	386DT
334	Replaced	388
334 x 550	Replaced	388 x 550
370L	Replaced	360L
370T	Replaced	360T
372L	Replaced	360L
374T x 333DT	Replaced	374T x 386DT
-----	New	374T x 392-6
376T x 337DT	Replaced	376T x 386DT
-----	New	376T x 392-6
3308NL	Obsolete	-----
3308DT	Obsolete	-----
-----	New	388 x Ives 8190 Series Pull
-----	New	360T x Ives 8190 Series Pull

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Nomenclature – How To Order



* "A" Suffix indicates new generation design of 33/35 exit devices

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33A/35A Series Exit Devices



Visit Von Duprin on the web

www.vonduprin.com

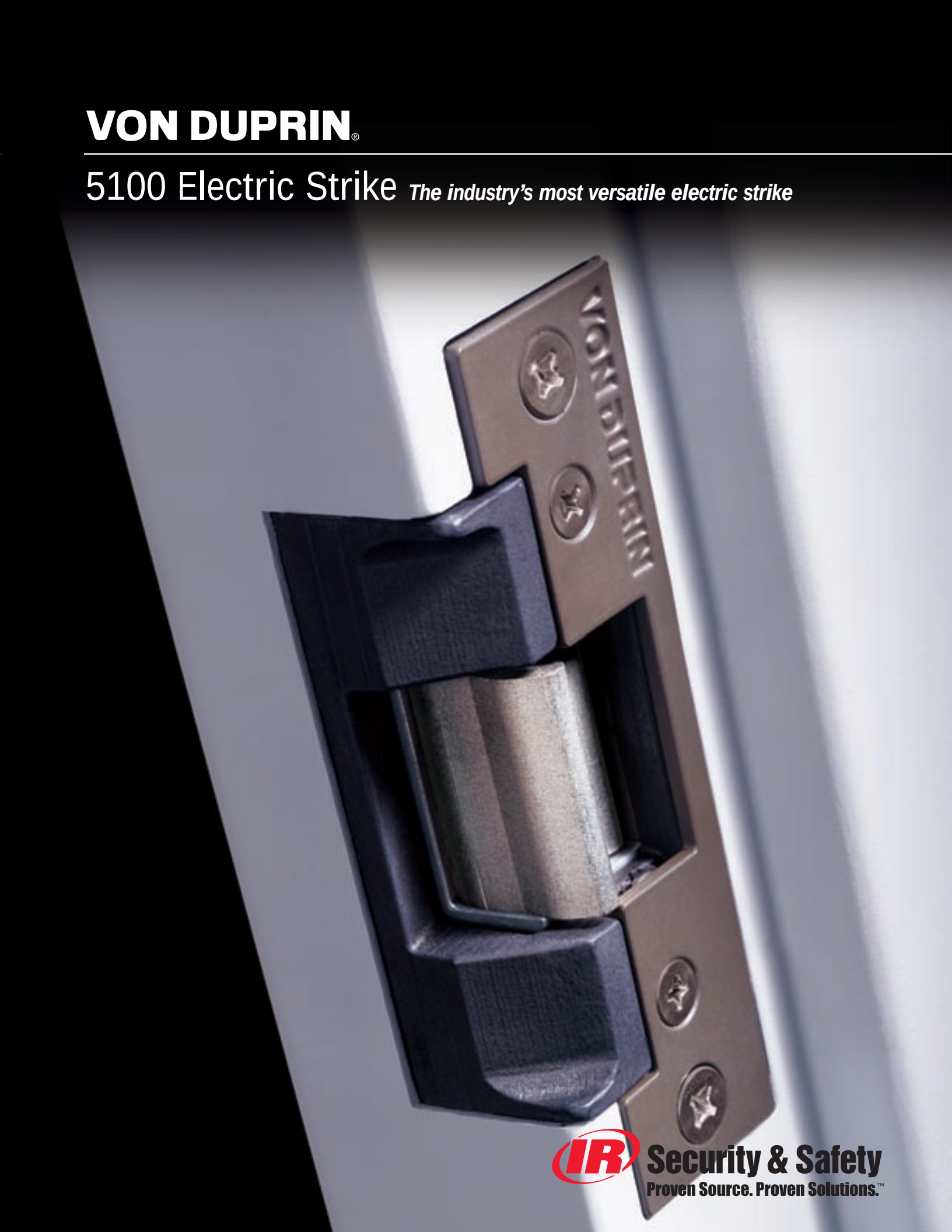
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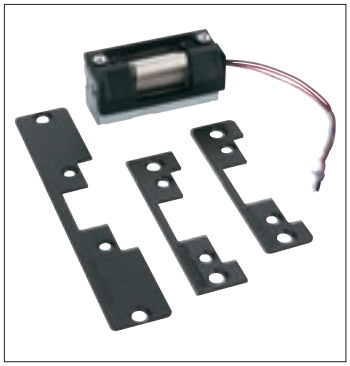
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VON DUPRIN®

5100 Electric Strike *The industry's most versatile electric strike*



IR Security & Safety
Proven Source. Proven Solutions.™



Each electric strike kit comes standard with three faceplates, a 12/24 dual-voltage solenoid, fail safe/fail secure selectability and an adjustable keeper.

The Von Duprin 5100 Electric Strike has been designed and manufactured to meet the needs of locksmiths and security professionals. This easy-to-install electric strike was created for medium duty applications, specifically to control traffic flow through interior and exterior openings in retail and commercial environments. And because it's the Von Duprin brand, you know that you can depend on the product quality and performance.

VERSATILITY:

Fewer products to inventory and more value for your money.
- Three faceplates included for hollow metal, wood or aluminum frames.
- Internal 12/24 dual-voltage solenoid.
- Adjustable keeper.
- Fail-safe/fail-secure selectability.

CONVENIENCE:

The right parts in the box means getting the job done right the first time, every time.
- Reduce labor expense.
- Fewer return trips to the job site.
- Reduces SKU's.

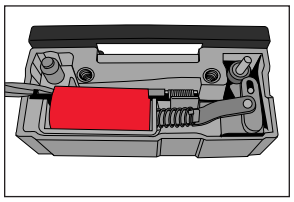
DURABILITY:

Developed with Von Duprin's high standards and engineering expertise.
- Heavy-duty construction.
- Tamper resistant design.
- Tested to over one million cycles.
- 1300 lbs. holding strength.

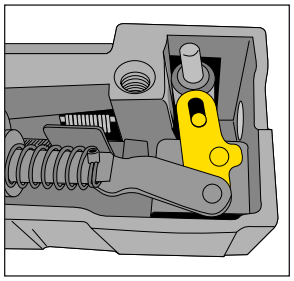
JOB SITE VERSATILITY.

The Von Duprin 5100 Electric Strike can meet the application needs of six or more competitive models for standard installation, which saves time, money, and labor.

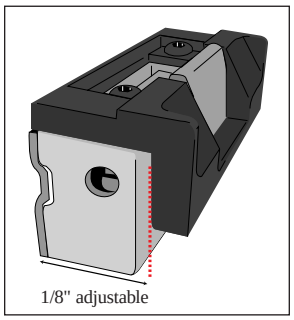
1. The solenoid has four wires, allowing you to configure the strike at the job site so you can use it in either 12 or 24 volt DC applications.



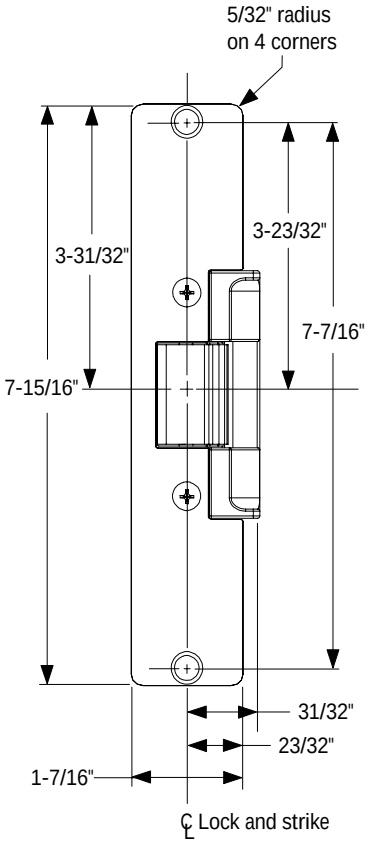
2. The 5100 Electric Strike is easily changeable between fail-safe and fail-secure in the field without the need for additional parts.

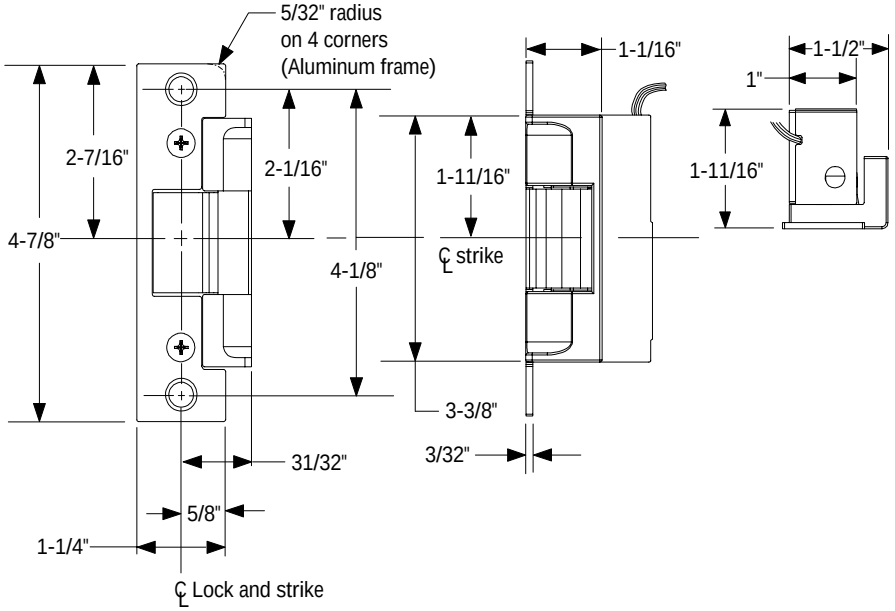


3. The 5100 Electric Strike has a 1/8" horizontally adjustable keeper. This mechanism, which is designated by the dark gray region of the diagram, allows the installer to adjust the strike where a door and frame are not properly aligned or where weather stripping is causing too much pressure on the strike.



Standard Features	Benefits
Three faceplates standard in every box	No matter the frame type -- wood, aluminum or hollow metal -- the installer has what's needed in every box to finish the job right – the first time.
12/24 dual-voltage	Easily answers the question of 12 or 24 volts DC.
Fail-safe/fail-secure	Easily changed in the field in less than thirty seconds. No additional parts are required.
Adjustable keeper	Provides a snug fit and reduces pressure from the door on the strike.
Internal solenoid	Increases the ease of installation where the frame is filled with grout or concrete and must be hollowed-out.
Non-handed	Can be used for doors opening in either direction.
Backbox depth of 1 11/16"	Reduces the need for additional cutting of the frame and other prep work.
Keeper depth of ½"	Sufficient to accommodate all cylindrical locks up to 5/8" throw and most aluminum narrow stile deadlatches.
Mounting tabs	For applications where mounting brackets are not provided on the frame.
Retrofit kit	Neoprene filler provides a clean finish.
Illustrated installation instructions	Increases ease of use and installation.
Tamper resistant design	Minimizes unauthorized access.
Warranty	Standard Von Duprin 1 year electrical product warranty.
Continuous duty operation	Solenoid can be continuously powered.
Heavy duty construction	• Die cast aluminum backbox offers strong, corrosion resistant design. • Internal steel components are corrosion resistant. • High density steel keeper can withstand over 1300 lb. of force. • Stamped steel faceplates are stronger than aluminum





5100 Electric Strike *The industry's most versatile electric strike.*

POWER OPTIONS:

DC: Regulated Power Supplies (Recommended)
- Von Duprin PS 861
- Von Duprin PS 873
- Locknetics 505
- Locknetics 510
- Locknetics 515

DC: 24V Unregulated Power Supplies (Acceptable)
- Locknetics 593 PI-24DC (Plug-In)
- Locknetics 592-24RC (Hard-Wired)

AC/DC Conversion:
- Von Duprin SO-24 Kit

SPECIFICATIONS:

- ANSI/BHMA 156.5 Grade 1
- UL 1034 Burglary Listing

	12VDC	24VDC
Resistance (Ohms)	32	128
Power (watts)	4.5	4.5
Current (amps)	.38	.19

All specs ± 10% @ 77°F/25°C

STANDARD CONFIGURATION:

- 24 volts DC
- Fail-secure

DIMENSIONS:

Backbox: 3⅜" x 1" x 1$^{11}/_{32}$"
Overall Strike Depth: 1$^{11}/_{16}$"
Faceplates:
- 4⅞" round corner ANSI A115.2 standard frame prep
- 4⅞" square corner ANSI A115.2 standard frame prep
- 7$^{15}/_{16}$" long, round corner wood frame prep

Keeper pocket: 1$^{7}/_{16}$"L x ½"D x $^{11}/_{16}$" - $^{13}/_{16}$"W (adjustable)
Lip Attachment cut-out depth: 1$^{1}/_{16}$"

HOW TO ORDER:

- 5100-689 (Aluminum)
- 5100-622 (Black)
- 5100-695 (Dark Brown)



689 *622* *695*

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Indianapolis, IN 46219
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VON DUPRIN®

55 Series Exit Device



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Introduction

The proper selection and application of exit hardware, in addition to safety, are major concerns to all responsible manufacturers. Exit devices are a critical part of a door opening or access system and will provide safe and reliable service when properly applied and maintained. It is the policy of Von Duprin Division, Ingersoll-Rand Company, to design and manufacture exit devices to a high standard of quality and reliability in accordance with accepted U.S. domestic and international standards. All 55 series exit devices are UL listed for Accident Hazard or Fire Exit Hardware, and are tested in accordance to ANSI A156.3, 1994, Grade I.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments, and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended whenever an unusual application condition exists, or when any modification of a product is considered, our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.





1409

55 rim devices for all types of single and double doors with mullion, UL listed for accident hazard installations. Fits doors stiles as narrow as 1-3/4" *(44mm).* Specify if 2-1/4" door.

Features

- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Five popular finishes
- Hex key dogging

Dimensions

Crossbar height to finished floor	36-13/16" *(1011mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Crossbar tubing	1" *(25mm)*

Strikes and Fasteners

Device is furnished with standard 1409 strike in dull black finish. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. For strike dimensions and optional strike information, refer to pages 12-13.

Outside Trim

Standard

550DT x 110NL-MD
550DT x 110NL-WD
550DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.

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575

5575 mortise lock devices for all types of single and double doors. UL listed for accident hazard installations.

The 7500 mortise lock is equipped with a 3/4" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel. Wood doors required 589 cover plate.

Features

- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Latch bolt height to finished floor	40-3/32" *(1018mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Lock case	4-5/8" x 5-3/4" x 1-1/16" *(117mm x 146mm x 27mm)*
Faceplate	1-1/4" x 8" x 7/32" *(32mm x 203mm x 6mm)*
Cylinder backset	2-3/4" *(70mm)*
Crossbar tubing	1" *(25mm)*

Strikes and Fasteners

Device is furnished with standard 575 strike in dull black finish. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. Optional strikes and finishes are available. For strike applications, dimensions, and minimum door stile information, refer to pages 12-13.

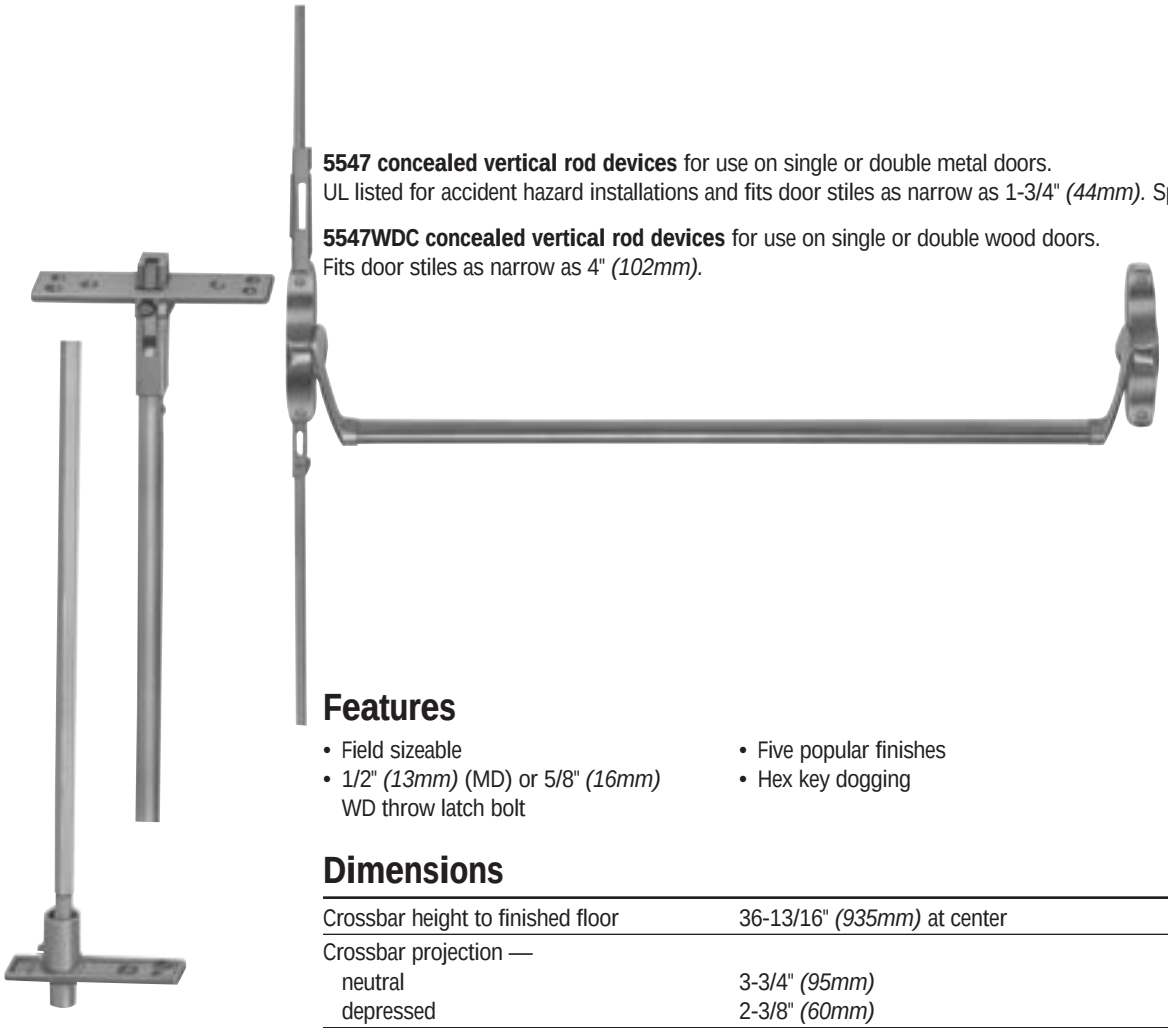
Outside Trim

Standard

375L
550DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.



5547 concealed vertical rod devices for use on single or double metal doors.
UL listed for accident hazard installations and fits door stiles as narrow as 1-3/4" *(44mm).* Specify if 2-1/4" door.

5547WDC concealed vertical rod devices for use on single or double wood doors.
Fits door stiles as narrow as 4" *(102mm).*

Features

- Field sizeable
- 1/2" *(13mm)* (MD) or 5/8" *(16mm)* WD throw latch bolt
- Five popular finishes
- Hex key dogging

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Vertical rods-hexagon	3/8" *(10mm)* adjustable top rod
Crossbar tubing	1" *(25mm)*

Note: Maximum door undercut, 1/4" *(6mm)*.



471U **304L** **338**

Strikes and Fasteners

5547 is furnished standard with 471U and 304L.

5547WDC is furnished standard with 338 and 304L.

Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. For strike dimensions and optional strike information, refer to pages 12-13.

Outside Trim

Standard

555NL
550DT
376T x 550DT

Optional

Wood Door
556NL
550DT
376T (WDC) x 550DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.

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575

5575-F fire exit mortise lock devices for 4' x 10' *(1219mm x 3048mm)* single or 8' x 8' *(2438mm x 2438mm)* double metal doors, UL listed for up to 3 hour labeled installations. Fits door stiles as narrow as 4-3/4" *(121mm).*

The 7500 mortise lock is equipped with a 3/4" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel. Wood door required 589 cover plate.

Features

- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Latch bolt height to finished floor	40-3/32" *(1018mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Lock case	4-5/8" x 5-3/4" x 1-1/16" *(117mm x 146mm x 27mm)*
Faceplate	1-1/4" x 8" x 7/32" *(32mm x 203mm x 6mm)*
Cylinder backset	2-3/4" *(70mm)*
Crossbar tubing	1" *(25mm)*

Strikes and Fasteners

Device is furnished with standard 575 strike in dull black finish. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. Optional strike and finishes are available. For strike applications, dimensions, and minimum door stile information, refer to pages 12-13.

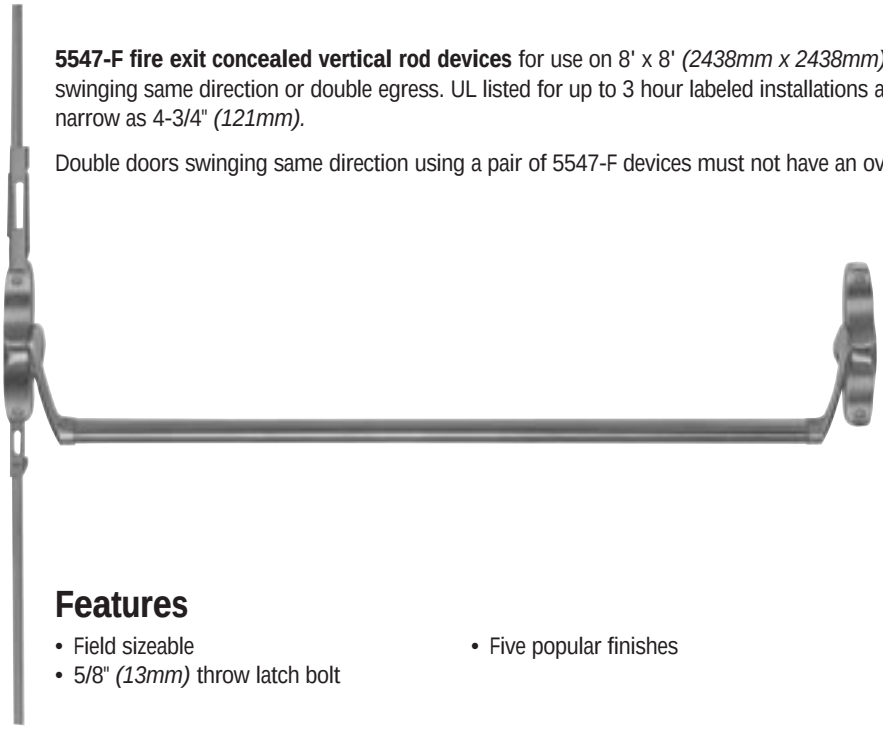
Outside Trim

Standard
550DT
375L

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.





5547-F fire exit concealed vertical rod devices for use on 8' x 8' *(2438mm x 2438mm)* double metal doors swinging same direction or double egress. UL listed for up to 3 hour labeled installations and fits door stiles as narrow as 4-3/4" *(121mm)*.

Double doors swinging same direction using a pair of 5547-F devices must not have an overlapping astragal.

Features

- Field sizeable
- 5/8" *(13mm)* throw latch bolt
- Five popular finishes

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Vertical rods	3/8" *(10mm)* hexagon
Crossbar tubing	1" *(25mm)*

Note: Maximum door undercut, 1/4" *(6mm)*.



301L

Strikes and Fasteners

Device is furnished with standard 301L strike. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. For strike dimensions and optional strike information, refer to pages 12-13.

Outside Trim

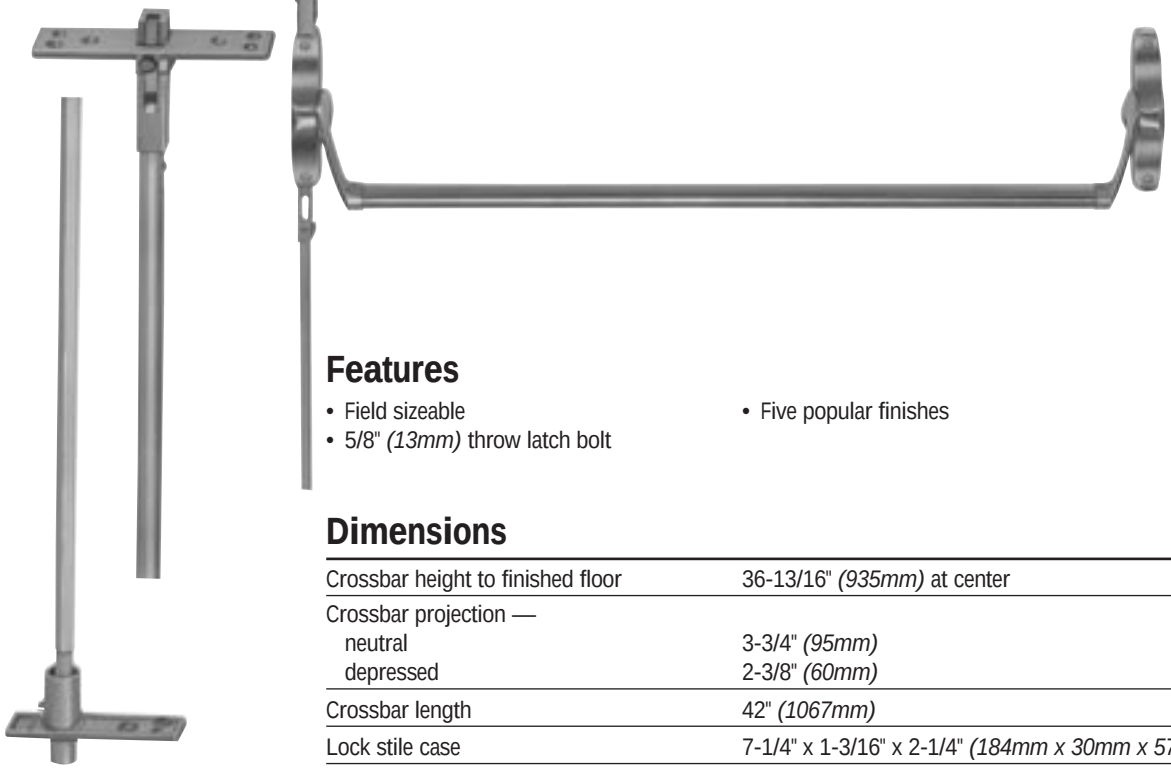
Standard

371L
376T x 609DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.

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5547WDC-F fire exit concealed vertical rod devices for use on 8' x 9'3" *(2438mm x 2819mm)* double wood doors swinging same direction or double egress. UL listed for up to 90 minute doors and fits stiles as narrow as 4-3/4" *(121mm)*.

Double doors swinging same direction using a pair of 5547WDC-F devices must not have an overlapping astragal.

Features

- Field sizeable
- 5/8" *(13mm)* throw latch bolt
- Five popular finishes

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Vertical rods	3/8" *(10mm)* hexagon
Crossbar tubing	1" *(25mm)*

Note: Maximum door undercut, 1/4" *(6mm)*.



304L **338**

Strikes and Fasteners

Device is furnished with standard 338 and 304L strikes. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. For strike dimensions and optional strike information, refer to pages 12-13.

Outside Trim

Standard

376T x 550DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.

Function		01 Exit Only	02 Pull When Dogged	03 Key Retracts Latch Bolt	08 Key Locks Lever	08 Key Locks Lever	11 Key Locks Thumbturn (Pull Required)
Trim Number and Dimensions		**55EO**	**55DT**	**55NL**	**371-L**	**375-L**	**376DT x 609DT**
Device/Trim Center Line To Finished Floor							
Projection		—	2-5/8" *(67mm)* 1-7/8" *(48mm)*	2-5/8" *(67mm)* 1-7/8" *(48mm)*	2-5/8" *(67mm)*	—	1-13/16" *(46mm)*
Rim	Panic	55EO	55DT	55NL	—	—	—
	Ctr. Line	**A** 39-13/16" *(1011mm)*	**A** 39-13/16" *(1011mm)* **B** 39-13/16" *(1011mm)*	**A** 39-13/16" *(1011mm)* **B** 39-13/16" *(1011mm)*	—	—	—
Mortise Lock	Panic	5575EO	5575DT	5575NL	—	5575L	—
	Fire	5575EO-F	—	5575NL-F	—	5575L-F	—
	Ctr. Line	—	—	—	—	**A** 39-13/16" *(1011mm)* **B** 38-1/2" *(978mm)*	—
Concealed Vertical Rod Lock	Panic	5547EO	5547DT	5547NL	—	—	5547TL
	Fire	5547EO-F	—	—	5547L-F	—	5547TL-F
	Ctr. Line	—	—	—	**A** 39-13/16" *(1011mm)* **B** 40-7/16" *(1027mm)*		**A** 39-13/16" *(1011mm)* **B** 53-1/2" *(1359mm)*
Additional SNB requirements		2	2	2	2	2	2
Cylinder Type Required	Rim	—	—	Rim	—	—	—
	Mortise	—	—	Mortise	—	—	—
	C.V.R.	—	—	Rim	Mortise	Mortise	Mortise

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550DT | Rim 555NL | 556NL



376T | 371L Concealed Vertical Rod

Standard Trim

Series 550

Heavy aluminum bracket with 10" *(25mm)* stainless steel or brass pull bar. 550DT with NL function is furnished with 110MD or WD. On 555NL (Metal) and 556NL (Wood), the cylinder locates in pull return. Cylinder must be ordered separately.

Series 550

Heavy aluminum brackets with 10" *(25mm)* stainless steel or brass pull bar. DT function only.

Series 376T

Thumbturn control has a forged brass 7/8" *(25mm)* thick escutcheon. Often used with DT trim or pull. An NL cylinder plate is included for thumbturn operation only when key is used for vertical rod or mortise device. BE blank escutcheon is available, specify 376T-BE.

Series 370L

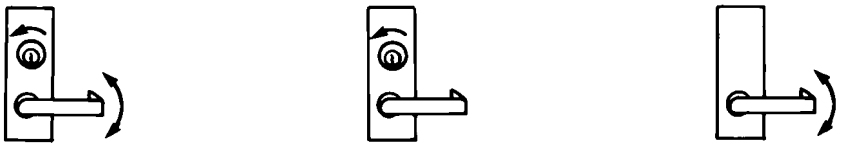
Lever control has a forged brass 7/8" *(25mm)* thick escutcheon. Optional lever designs are available. An NL cylinder plate is included for lever operation only when key is used for vertical rod or mortise device. BE Blank escutcheon is available, specify 371L-BE.

Lever Design Options



#01 | #02 | #03 | #06 Standard | #07 | #12 | #17

Operation Options



Standard Operation — Key locks and unlocks lever.

NL Function — Lever is locked when key is removed.

Blank Escutcheon — Lever always active. BE suffix, e.g., 371L-BE.

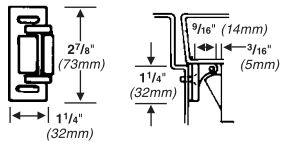
Strike Application/Minimum Stile

Device Type	Standard				Optional			
	Single door		Double door		Single door		Double door	
	Strike	Stile	Strike w/Mullion	Stile	Strike	Stile	Strike w/Mullion***	Stile
55 Rim	1409	1-3/4" *(44mm)*	1408 x 5754	1-3/4" *(44mm)*	299 1410 1606 264	2-13/16" *(71mm)* 1-3/4" *(44mm)* 2-3/8" *(60mm)* 2-9/16" *(65mm)*	299 x 5654 264 x 5654 1606 x 1654 299 x 4954 264 x 4954	2-3/4" *(70mm)* 2-1/2" *(64mm)* 2-3/4" *(70mm)* 3-3/16" *(81mm)* 2-5/16" *(75mm)*
5575	575	4-3/4" *(121mm)*	—	—	—	—	575-2 576A-576B	4-3/4" *(121mm)*
5575-F	575	4-3/4" *(121mm)*	—	—	—	—	575-2 576A-576B	4-3/4" *(121mm)*
5547	Strike 471U (Top) 301L (Bottom)		Stile Single door Two vertical rod devices Vertical rod w/mortise lock device	1-7/8" *(48mm)* 1-3/4" *(44mm)* 4-3/4" *(121mm)*	Strike 472U/473U (Top) For Wood Frames		Stile Single door Two vertical rod devices Vertical rod w/mortise lock device	1-7/8" *(48mm)* 1-3/4" *(44mm)* 4-3/4" *(121mm)*
5547WDC	338 (Top) 301L (Bottom)		Single door Two vertical rod devices	4" *(127mm)* 4" *(127mm)*	472U/473U (Top) For Wood Frames		Single door Two vertical rod devices	4" *(127mm)* 4" *(127mm)*
5547-F	Soffit Latch (Top) 301L (Bottom)		Two vertical rod devices Vertical rod w/mortise device	4-3/4" *(121mm)* 4-3/4" *(121mm)*	385A (Bottom)		Vertical rod w/mortise lock device	4-3/4" *(121mm)*
5547WDC-F	338 (Top) 301L (Bottom)		Two vertical rod devices	4" *(127mm)*	472U/473U (Top) For Wood Frames		Two vertical rod devices	4" *(127mm)*

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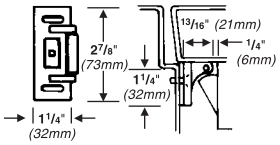
Strikes for Rim Devices

264



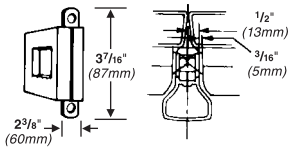
Projection 13/16" *(21mm)*

299



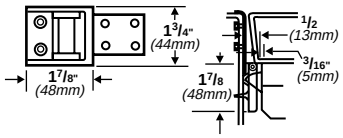
Projection 13/16" *(21mm)*

1408



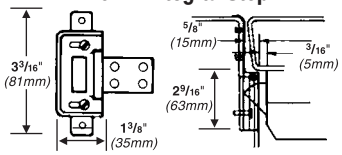
Projection 13/16" *(21mm)*

1409 — Blade Stop



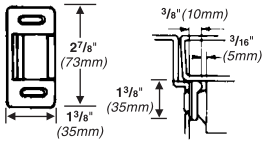
One per pair of doors

1410 — Integral Stop



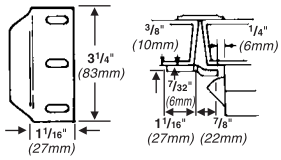
Projection 1/2" *(13mm)*

1606



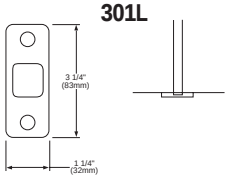
Projection 3/8" *(10mm)*

1609



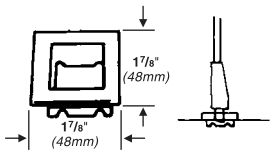
Strikes for Vertical Rod Devices

301L



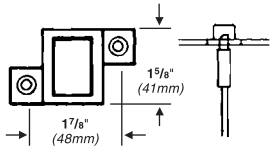
Mortise 3/4" *(19mm)*

304L



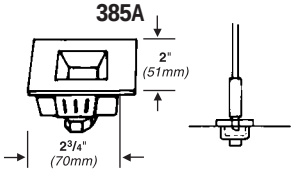
Mortise 13/16" *(21mm)*

338



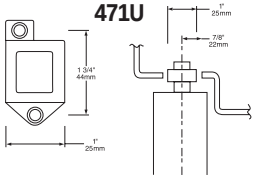
Projection 5/8" *(16mm)*

385A



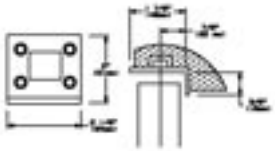
Mortise 2-1/2" *(64mm)*

471U

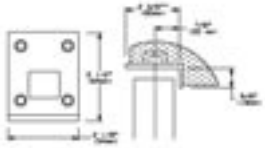


Hollow metal frame

472U



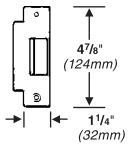
Wood frame 1-3/4" *(44mm) thick doors*



Wood frame 2-1/4" *(57mm) thick doors*

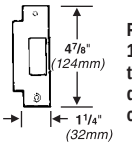
Strikes for Mortise Lock Devices

575



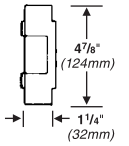
For use on 1-3/4" *(44mm)* **or 2-1/4"** *(57mm)* **Single door and 2-1/4"** *(57mm)* **double door with coordinator.**

575-2



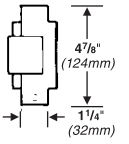
For use on 1-3/4" *(44mm)* **thick double door with coordinator.**

576A



Open back strike for 1-3/4" *(44mm)* **thick double doors without coordinator.**

576B



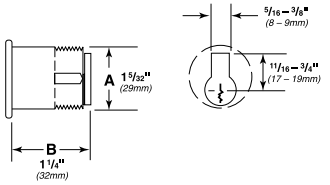
Open back strike for 2-1/4" *(57mm)* **thick double doors without coordinator.**

Cylinders

Cylinders are not furnished with device or trim and must be specified when ordering. Rim and concealed vertical rod exit devices use rim type cylinders. Mortise lock exit devices and series 370 controls use mortise type cylinders.

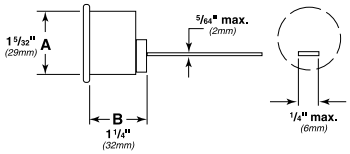


Mortise — 3215 (Schlage D502-191 cam)





Rim — 3216



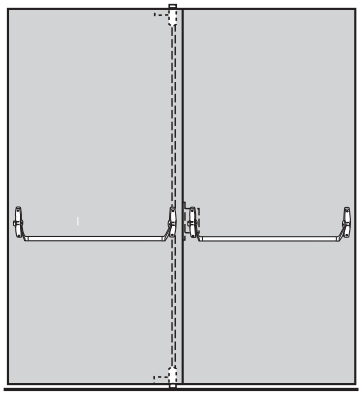
Conversion Kit — NL

For converting 55DT or 55EO to 55NL for night latch function. The kit includes 110NL cylinder assembly and cam. The 550DT trim and 3216 rim cylinder are not included.

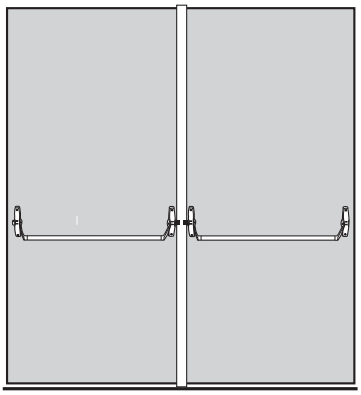
Order 55CK-NL, specify finish.

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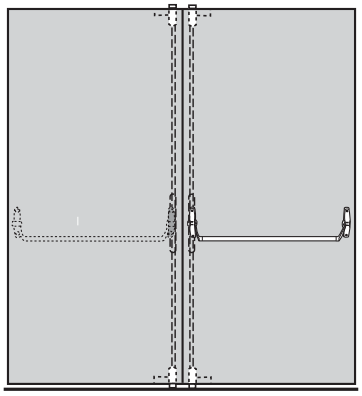
Popular Double Door Applications



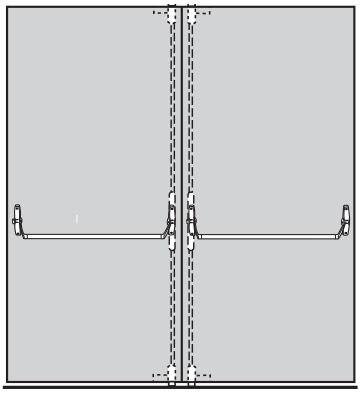
Mortise lock and vertical rod device combination — same direction



Two rim devices with mullion — same direction



Two vertical rods — double egress



Two vertical rod devices — same direction (do not use with overlapping astragal)

UL Listed — Fire Exit Hardware Label/Opening Size

Exit Device	Single Door	Double Door		
		Same Direction Vert./Vert.	Same Direction Vert./Mortise	Double Egress
5575-F	3 Hour 4' x 10'	—	3 Hour 8' x 8'	—
5547-F	—	90 Min. 8' x 8'	3 Hour 8' x 8'	3 Hour 8' x 8'
5547-F-WDC	—	90 Min. 8' x 9'3"	—	—

ANSI Grade, Type & Function

Function	Grade 1 Type 1 & 4	Grade 1 Type 3 & 10	Grade 1 Type 6 & 8
01	55EO	5575EO, 5575EO-F	5547EO, 5547EO-F
02	55DT	5575DT	5547DT
03	55NL	5575NL, 5575NL-F	5547NL
08	—	—	5547L-F
11-12	—	—	5547TL, 5547TL-F
11-12	—	—	5547TL-WDC, 5547TL-WDC-F

Finishes

Color	US Number	BHMA Number
Brass, Polished	US3	BHMA605
Brass, Dull	US4	BHMA606
Brass, Dull-oxidized	US10B	BHMA613
Bronze, Dull	US10	BHMA612
Chrome, Polished	US26	BHMA625
Chrome, Dull	US26D	BHMA626

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How-To-Order Information

Rim and mortise lock devices, specify:

1. Exit device model number and trim selection.
   Examples: 55EO (exit only and no outside trim).
   55DT (includes standard 555 DT trim).
2. Door width if greater than 4' *(1219mm)*.
3. Door thickness if other than 1-3/4" *(44mm)*.
4. Door and frame material if other than hollow metal.
5. Finish, see page 16.
6. Handing, LHR or RHR. See below.

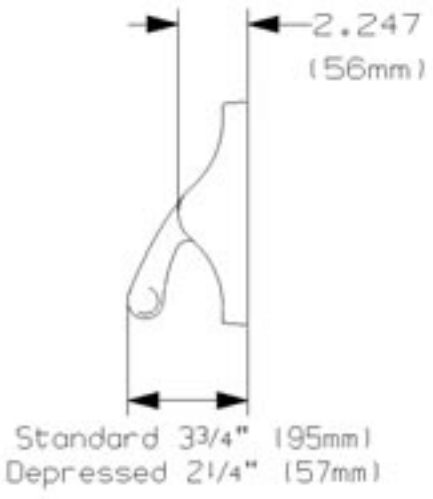
Vertical rod devices, specify:

1. Exit device model number and trim selection.
   Examples: 5547EO (exit only and no outside trim).
   5547NL (includes standard 555 NL trim).
2. Door width if greater than 4' *(1219mm)*.
3. Door thickness if other than 1-3/4" *(44mm)*.
4. Door height if other than 8' *(2438mm)*, extension rods must be ordered.
5. Door and frame material if other than hollow metal.
6. Finish, see page 16.
7. Handing, LHR or RHR. See below.

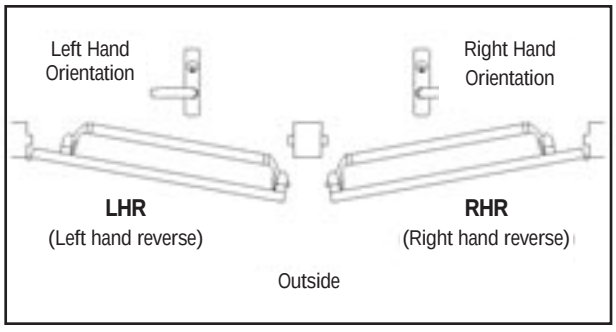
Dimensions



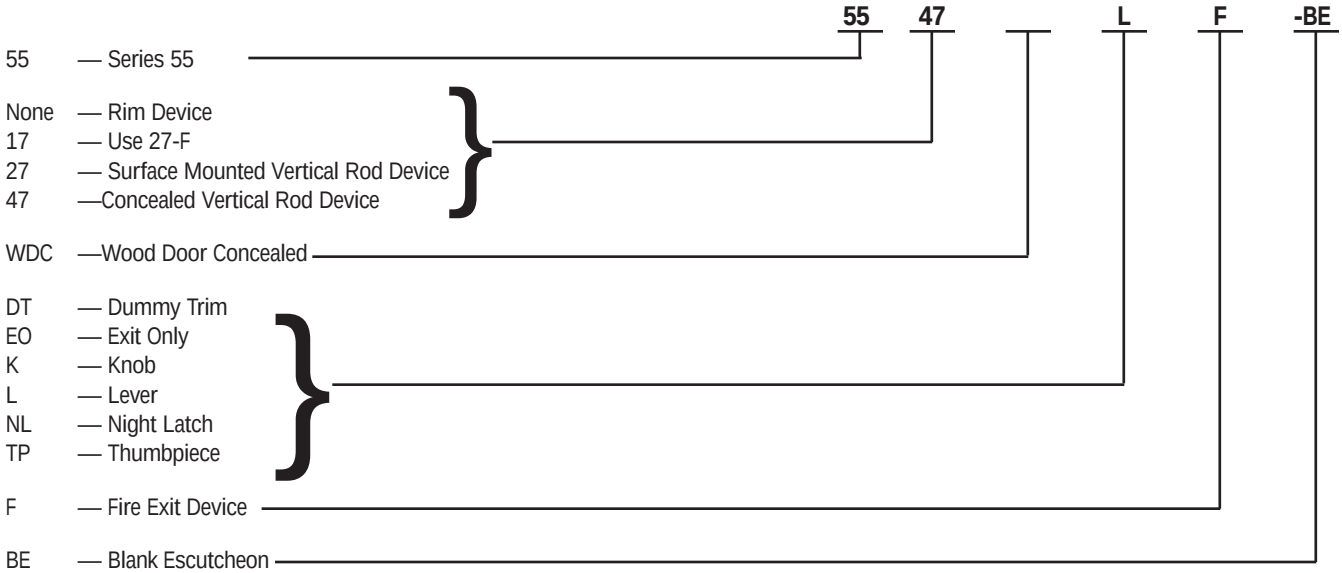
Standard 3-3/4" *(96mm)*
Depressed 2-1/4" *(57mm)*



Handing of Doors



Nomenclature



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55 Series Exit Devices



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VON DUPRIN®

88 Series Exit Device



INGERSOLL-RAND
ARCHITECTURAL HARDWARE

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INTRODUCTION

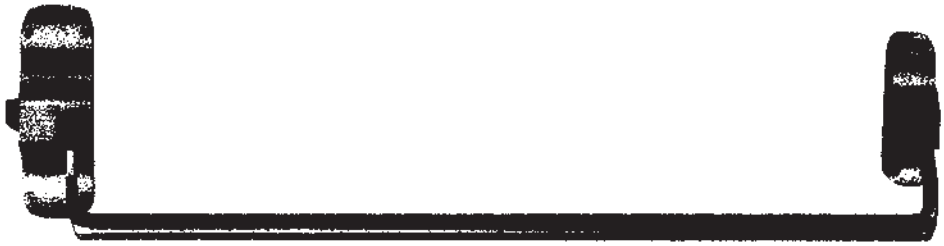
The proper selection and application of exit hardware, in addition to safety, are major concerns to all responsible manufacturers. Exit devices are a critical part of a door opening or access system and will provide safe and reliable service when properly applied and maintained. It is the policy of Von Duprin Division, Ingersoll-Rand Company, to design and manufacture exit devices to a high standard of quality and reliability in accordance with accepted U.S. domestic and international standards. All 88 series exit devices are UL listed for Accident Hazard and Fire Exit Hardware, and are tested in accordance to ANSI A156.3, 1994, Grade I.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended that whenever an unusual application condition exists, or when any modification of a product is considered, our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.

VON DUPRIN®
88 Rim Device





299

88 rim devices for all types of single and double doors with mullion, UL listed for accident hazard installations. Covers stock hollow metal doors with 86 or 161* cutouts.

FEATURES

- Field reversible
- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Five popular finishes
- Hex key dogging

DIMENSIONS

Crossbar height to finished floor	36 13/16" *(935mm)* at center
Crossbar projection — neutral depressed	 4 3/4" *(121mm)* 4" *(102mm)*
Crossbar length	42" *(1067mm)* field sizeable
Lock stile case	8 1/4" × 2 3/4" × 15/16" *(210mm × 70mm × 24mm)*
Hinge stile case	6" × 1 3/4" × 15/16" *(152mm × 44mm × 24mm)*
Crossbar tubing	1" *(25mm)*

STRIKE AND FASTENERS

Device is furnished standard with 299 strike in dull black finish. All necessary mounting fasteners are included. Optional strikes and finishes must be specified. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

DEVICE OPTIONS

E88 Electric rim device, page 16.

*Not applicable with all strike and mullion combinations, consult factory.

OUTSIDE TRIM

Standard

880NL-RV
880TP-RV
880DT
880K-RV
373L

Optional

608NL-RV
608TP-RV
608DT
606K-RV
880EO

For complete outside trim information, see pages 11-13.

How-To-Order information on all devices, see page 22.

VON DUPRIN®
88 Mortise Lock Device





575

8875 mortise lock devices for all types of single or double doors, UL listed for accident hazard installations. Fits stock hollow metal doors with 86 cutouts and door stiles as narrow as 4 3/4" *(121mm).*

The 7500 mortise lock is equipped with a 3/4" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a nonhanded auxiliary bolt for deadlocking and a faceplace with an adjustable bevel. Field selection of functions are furnished standard. TP, K or L function may be field selected by removing a set screw. Electric locking or unlocking options are available, refer to pages 18-19.

FEATURES

- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes
- Hex key dogging

DIMENSIONS

Crossbar height to finished floor Latch bolt height to finished floor	36 13/16" *(935mm)* at center 40 3/32" *(1018mm)* at center
Crossbar projection — neutral depressed	 4 7/8" *(124mm)* 4" *(102mm)*
Crossbar length	42" *(1067mm)* field sizeable
Lock stile case	8 1/4" × 2" × 15/16" *(210mm × 51mm × 24mm)*
Hinge stile case	6" × 1 3/4" × 15/16" *(152mm × 44mm × 24mm)*
Crossbar tubing	1" *(25mm)*
Lock case	4 5/8" × 5 3/4" × 1 3/16" *(117mm × 146mm × 46mm)*
Face plate	1 1/4" × 8" × 7/32" *(32mm × 203mm × 6mm)*
Cylinder backset	2 3/4" *(70mm)*

OUTSIDE TRIM

Standard

880NL-M
880TP-M
880DT
880K-M
373L

Optional

608NL-M
608TP-M
608DT
606K-M
880EO

For complete outside trim information, see pages 11-13.

STRIKE AND FASTENERS

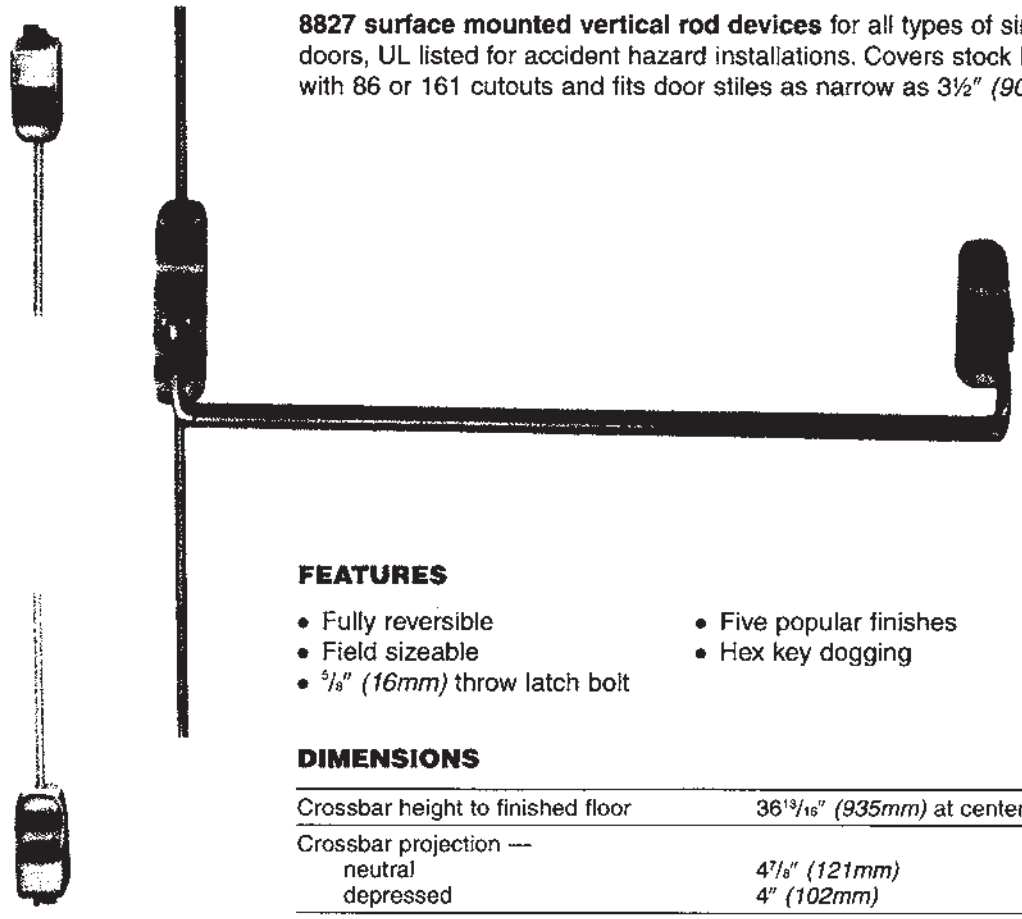
Device is furnished with standard 575 strike in dull black. All necessary mounting fasteners are included. Optional strikes and finishes must be specified. For strike applications, dimensions and minimum door stile information, refer to pages 14-15.

DEVICE OPTIONS

E8875 Electric mortise lock device, page 17.

How-To-Order information on all devices, see page 22.

88 Surface Mounted Vertical Rod Device



8827 surface mounted vertical rod devices for all types of single and double doors, UL listed for accident hazard installations. Covers stock hollow metal doors with 86 or 161 cutouts and fits door stiles as narrow as 3½″ *(90mm)*.

FEATURES

- Fully reversible
- Field sizeable
- ⅝″ *(16mm)* throw latch bolt
- Five popular finishes
- Hex key dogging

DIMENSIONS

Crossbar height to finished floor	36 13/16″ *(935mm)* at center
Crossbar projection — neutral depressed	4 7/8″ *(121mm)* 4″ *(102mm)*
Crossbar width	42″ *(1067mm)* field sizeable
Lock stile case	8 1/4″ × 2″ × 15/16″ *(210mm × 51mm × 24mm)*
Hinge stile case	6″ × 1 3/4″ × 15/16″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*
Top and Bottom latch case	4″ × 2″ × 1 7/8″ *(102mm × 51mm × 48mm)*
Vertical Rod	½″ *(13mm)* tubing

Note: Maximum door undercut, ¼″ *(6mm)*.



299 248L-4 304L

OUTSIDE TRIM

Standard

880TP-RV
880DT
880K-RV
373L
377T × 880DT

Optional

608TP-RV
608DT
606K-RV
880EO

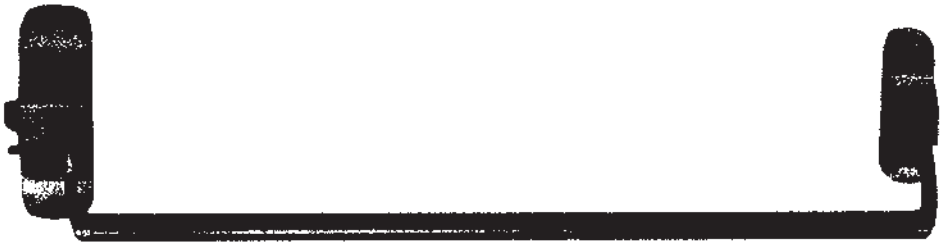
For complete outside trim information, see pages 11-13.

STRIKES AND FASTENERS

Device is furnished standard with 299 (in dull black), 248L-4 and 304L strikes. All necessary mounting fasteners are included. Optional strikes and finishes must be specified. For strike applications, dimensions and minimum door stile information, refer to pages 14-15.

Rod and latch guards are available. For complete information refer to page 18.

VON DUPRIN®
88 Fire Exit Rim Mortise





268

88-F fire exit rim devices for all types of 4′ × 8′ *(1219mm × 2438mm)* single and 8′ × 8′ *(2438mm × 2438mm)* double doors with 9954 mullion, UL listed, 3 hours.

FEATURES

- Field sizeable
- 3/4″ *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes

DIMENSIONS

Crossbar height to finished floor	36 13/16″ *(935mm)* at centerr
Crossbar projection — neutral depressed	4 7/8″ *(121mm)* 4″ *(102mm)*
Crossbar length	42″ *(1067mm)* field sizeable
Lock stile case	8 1/4″ × 2 3/4″ × 15/16″ *(210mm × 70mm × 24mm)*
Hinge stile case	6″ × 1 3/4″ × 15/16″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*

STRIKE AND FASTENERS

Device is furnished with standard 268 strike in dull black. All necessary mounting fasteners are included. Optional finishes must be specified. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

DEVICE OPTIONS

E-88-F Electric Rim Device, page 16.

OUTSIDE TRIM

Standard

880NL-RV
880TP-RV
880K-RV
373L

Optional

608NL-RV
608TP-RV
606K-RV

For complete outside trim information, see pages 11-13.

For How-To-Order Information on all devices, see page 22.





575

8875-F fire exit mortise lock devices for all types of 4′ × 10′ *(1219mm × 3048mm)* single or 8′ × 8′ *(2438mm × 2438mm)* double doors, UL listed, 3 hours. Fits door stiles as narrow as 4 3/4″ *(121mm)*.

The 7500 mortise lock is equipped with a 3/4″ *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a nonhanded auxiliary bolt for deadlocking and a faceplace with an adjustable bevel. Field selection of functions are furnished standard. TP, K, or L function may be field selected by removing a set screw. Electric locking or unlocking options are available; refer to pages 16-17.

FEATURES

- Field sizeable
- 3/4″ *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes

DIMENSIONS

Crossbar height to finished floor Latch bolt height to finished floor	36 13/16″ *(935mm)* at center 40 3/32″ *(1018mm)* at center
Crossbar projection — neutral depressed	 4 7/8″ *(124mm)* 4″ *(102mm)*
Crossbar length	42″ *(1067mm)* field sizeable
Lock stile case	8 1/4″ × 2″ × 15/16″ *(210mm × 51mm × 24mm)*
Hinge stile case	6″ × 1 3/4″ × 15/16″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*
Lock case *(117mm × 146mm × 46mm)*	4 5/8″ × 5 3/4″ × 1 3/16″
Face plate	1 1/4″ × 8″ × 7/32″ *(32mm × 203mm × 6mm)*
Cylinder backset	2 3/4″ *(70mm)*

OUTSIDE TRIM

Standard

880NL-M
880TP-M
880K-M
373L

Optional

608NL-M
608TP-M
606K-M
880EO

For complete outside trim information, see pages 11-13.

STRIKE AND FASTENERS

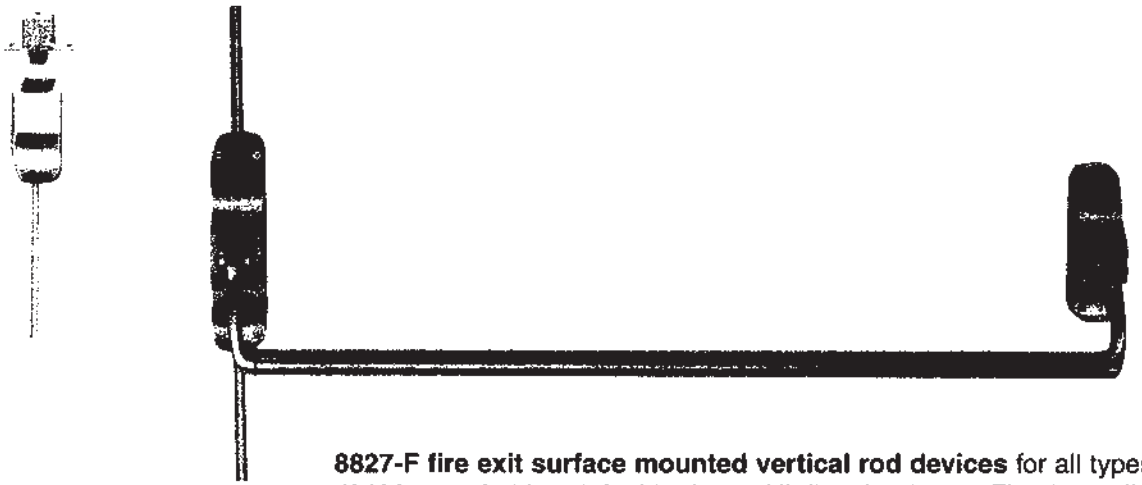
Device is furnished with standard 575 strike in dull black. All necessary mounting fasteners are included. Optional strikes and finishes must be specified. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

DEVICE OPTIONS

E8875-F Electric mortise lock device, page 17.

For How-To-Order Information on all devices, see page 22.

88 Fire Exit Surface Mounted Vertical Rod Device







8827-F fire exit surface mounted vertical rod devices for all types of 8′ × 8′ *(2438mm × 2438mm)* double doors, UL listed, 3 hours. Fits door stiles as narrow as 3 3/4″ *(95mm)*.

FEATURES

- Fully reversible
- Field sizeable
- 5/8″ *(16mm)* throw latch bolt
- Five popular finishes

DIMENSIONS

Crossbar height to finished floor	36 13/16″ *(935mm)* at center
Crossbar projection — neutral depressed	4 7/8″ *(124mm)* 4″ *(102mm)*
Crossbar length	42″ *(1067mm)* field sizeable
Lock stile case	8 1/4″ × 2″ × 15/16″ *(210mm × 51mm × 24mm)*
Hinge stile case	6″ × 1 3/4″ × 15/16″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*
Top or bottom latch case	4″ × 2″ × 1 7/8″ *(102mm × 51mm × 48mm)*
Vertical rod	1/2″ *(13mm)* tubing

Note: Maximum door undercut, 1/4″ *(6mm)*.

STRIKE AND FASTENERS

Device is furnished standard with 304L strike. All necessary mounting fasteners and the sex nuts and bolts required for the latches are included. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

Rod and latch guards are available. For complete information refer to page 18.

OUTSIDE TRIM

Standard

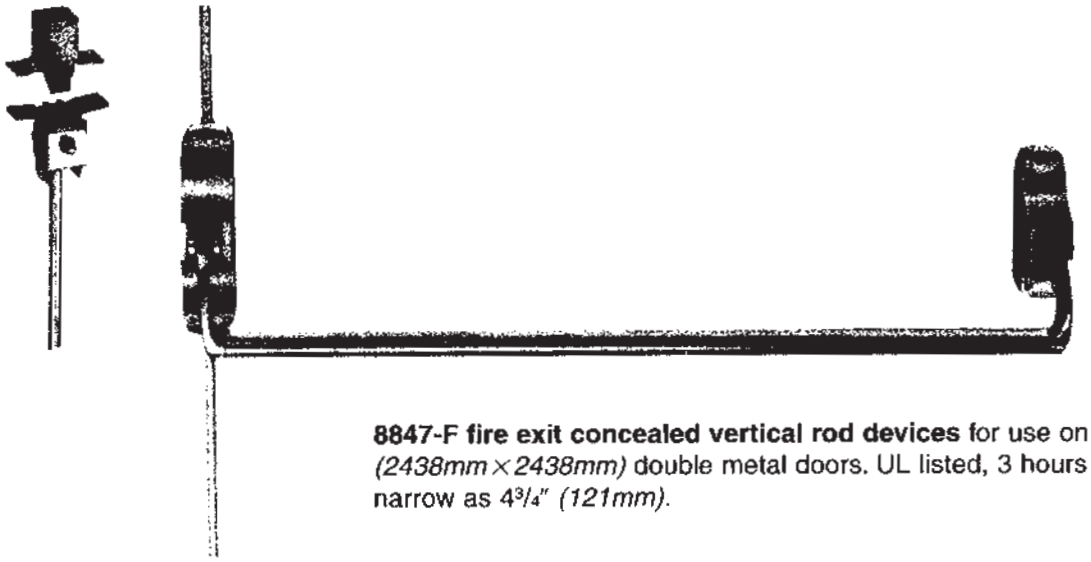
880TP-RV
880K-RV
373L
377T × 880DT

Optional

608TP-RV
606K-RV

For complete outside trim information, see pages 11-13.

For How-To-Order Information on all devices, see page 22.





301L

8847-F fire exit concealed vertical rod devices for use on 8′ × 8′ *(2438mm × 2438mm)* double metal doors. UL listed, 3 hours and fits door stiles as narrow as 4³/₄″ *(121mm)*.

FEATURES

- Field sizeable
- ⅝″ *(16mm)* throw latch bolt
- Five popular finishes

DIMENSIONS

Crossbar height to finished floor	36¹³/₁₆″ *(935mm)* at center
Crossbar projection — neutral depressed	4⅞″ *(124mm)* 4″ *(102mm)*
Crossbar length	42″ *(1067mm)* field sizeable
Lock stile case	8¼″ × 2″ × ¹⁵/₁₆″ *(210mm × 51mm × 24mm)*
Hinge stile case	6″ × 1¾″ × ¹⁵/₁₆″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*
Vertical rod	⅜″ *(10mm)* hexagon

Note: Maximum door undercut, ¼″ *(6mm)*.

STRIKE AND FASTENERS

Device is furnished standard with 301L strike. All necessary mounting fasteners are included. Optional strikes must be specified. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

Rod and latch guards are available. For complete information refer to page 18.

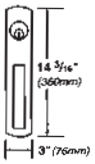
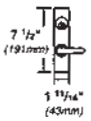
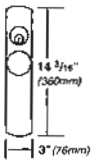
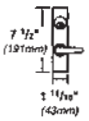
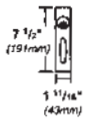
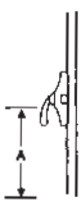
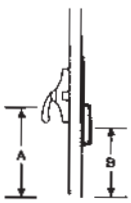
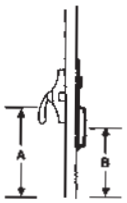
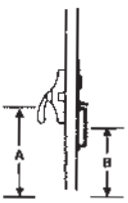
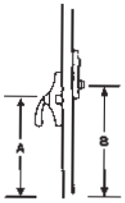
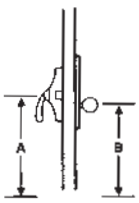
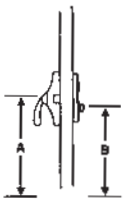
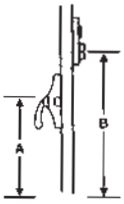
OUTSIDE TRIM

Standard
371L
376T × 880DT

For complete outside trim information, see pages 11-13.

For How-To-Order Information on all devices, see page 22.

VON DUPRIN®
88 Trim Selection

Function		01 Exit Only	02 Pull When Dogged	03 Key Retracts Latchbolt	05 Key Retracts Thumbpiece	06 Key Locks Lever	08 Key Locks Knob	08 Key Locks Lever	11/12 Key Locks Thumbturn
Trim Number and Dimensions			880DT 	880NL 	880TP 	371-L 	880K 	373-L 	377T or 376Tx 880DT-V 
Device/Trim Center Line To Finished Floor									
Projection —		—	2" (51mm)	2" (51mm)	2" (51mm)	2 5/8" (67mm)	2 3/4" (70mm)	2 5/8" (67mm)	1 13/16" (46mm)
Rim	Panic	88EO	88DT	88NL	88TP	—	88K	88L	—
	Fire	88EO-F	—	88NL-F▲	88TP-F▲	—	88K-F▲	88L-F■	—
	Ctr. Line	A 39 13/16" (1011mm) —	A 39 13/16" (1011mm) B 33 11/32" (847mm)	A 39 13/16" (1011mm) B 33 11/32" (847mm)	A 39 13/16" (1011mm) B 32 13/16" (833mm)	—	A 39 13/16" (1011mm) B 36 13/16" (935mm)	A 39 13/16" (1011mm) B 36 13/32" (935mm)	—
Mortise Lock	Panic	8875EO	8875DT	8875NL	8875TP	—	8875K	8875L	—
	Fire	8875EO-F	—	8875NL-F	8875TP-F	—	8875K-F	8875L-F	—
	Ctr. Line	A 39 13/16" (1011mm) —	A 39 13/16" (1011mm) B 33 1/2" (851mm)	A 39 13/16" (1011mm) B 33 1/2" (851mm)	A 39 13/16" (1011mm) B 33 1/2" (851mm)	—	A 39 13/16" (1011mm) B 38 9/16" (979mm)	A 39 13/16" (1011mm) B 38 9/16" (979mm)	—
Surface Mounted Vertical Rod	Panic	8827EO	8827DT	—	8827TP	—	8827K	8827L	8827TL
	Fire	8827EO-F	—	—	8827TP-F	—	8827K-F	8827L-F	8827TL-F
	Ctr. Line	A 39 13/16" (1011mm) —	A 39 13/16" (1011mm) B 33 1/2" (851mm)	—	A 39 13/16" (1011mm) B 33 1/2" (851mm)	—	A 39 13/16" (1011mm) B 38 5/16" (973mm)	A 39 13/16" (1011mm) B 38 5/16" (973mm)	A 39 13/16" (1011mm) B 53 1/2" (1359mm)
Concealed Vertical Rod	Fire	8847EO-F	—	—	—	8847L-F	—	—	8847TL-F
	Ctr. Line	A 39 13/16" (1011mm) —	—	—	—	A 39 13/16" (1011mm) B 41 11/16" (1059mm)	—	—	A 39 13/16" (1011mm) B 53 1/2" (1359mm)
Additional SNB requirements		4/8/16	4,12	4	4,12	4	4,12	4,12	4
Cylinder Type Required	Device Type Rim Mortise Vert. Rod C.V.R.	— — — —	— — — —	Rim Mortise — —	Rim Mortise Rim —	— — — Mortise	Rim Mortise Rim —	Mortise Mortise Mortise —	— — Mortise Mortise

▲*Requires Stainless Steel Trim for Wood or Composite Fire Doors.*
■*Requires 889 Plate for Wood or Composite Fire Doors.*
Note: 8827 uses 377T, 8847-F uses 376T.

STANDARD TRIM



880DT 880K 880NL 880TP 880EO 377T 373L

SERIES 880
Heavy 10 gauge *(2.4mm)* brass, bronze, or stainless steel. Available functions: 880DT, 880K, 880NL, and 880TP. Optional 880EO exit only trim plate is available. To order with the exit device, specify 88EOx880EO.

SERIES 377T
Thumbturn control has a forged brass 7/8" *(22mm)* thick escutcheon. Often used with DT trim or pull. An NL cylinder plate is included for thumbturn operation only when key is used. BE blank escutcheon is available, specify 377T-BE.

SERIES 373L
Lever control has a forged brass 7/8" *(22mm)* thick escutcheon. An NL cylinder plate is included for lever operation only when key is used. BE blank escutcheon is available, specify 373L-BE.

OPTIONAL TRIM



608DT 608NL 608TP 606K

SERIES 608
Narrow design 3/16" *(5mm)* thick brass, bronze, or stainless steel with flat pull grip. Available functions: 608DT, 608NL, and 608TP. When ordering with the exit device, specify 88NLx608NL.

SERIES 606K
Narrow design knob trim 3/16" *(5mm)* thick brass, bronze, or stainless steel 3/16" *(5mm)* escutcheon.

LEVER DESIGN OPTIONS



#01 #02 #03 #06 Standard #07 #12 #17

OPERATION OPTIONS — LEVER AND KNOB



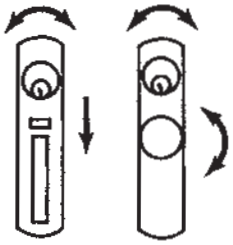
Standard Operation — Key locks and unlocks lever.



NL Function — Lever is locked when key is removed.



Blank Escutcheon — Lever always active. Use BE suffix, e.g., 373L-BE.



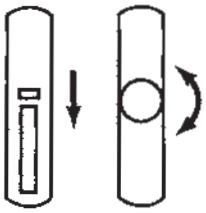
Standard Operation — Key locks and unlocks thumbpiece or knob.

TP-NL or K-NL Function — Trim is locked when key is removed (8827 & 8827-F only).



Night Latch — Key retracts latch bolt, knob is rigid.

Available with 88 Rim only. To order trim, specify 880K-R-Rigid.



Blank Escutcheon — Knob or thumbpiece always active, use BE suffix, e.g., 880K-BE.

CYLINDERS

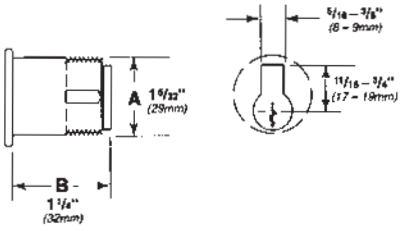
Cylinders are not furnished with device or trim and must be specified when ordering. Rim, surface vertical rod and concealed vertical rod exit devices use rim type cylinders. Mortise lock exit devices and series 370 controls use mortise type cylinders.

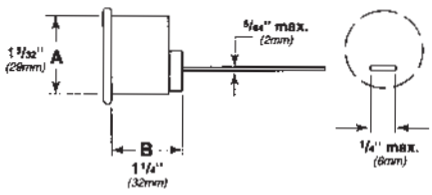


Mortise – 3215 (Schlage B502-191 cam)



Rim – 3216





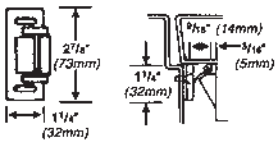
STRIKE APPLICATION/MINIMUM STILE

Device Type	Standard				Optional			
	Single door		Double door		Single door		Double door	
	Strike	Stile	Strike w/Mullion	Stile	Strike	Stile	Strike w/Mullion***	Stile
88	299	4 3/8" (111mm)	264 x 4954	4 11/16" (119mm)	264	4 1/8" (105mm)	299 x 5254/5654	4 1/4" (108mm)
					1409	3 3/8" (86mm)	264 x 5254/5654	4" (107mm)
							264 x 4954	4 7/16" (113mm)
					1606	3 15/16" (100mm)	1606 x 1654	4 1/4" (108mm)
					—	—	1609*	4" (107mm)
					—	—	1610**	4 7/16" (113mm)
88-F	268	4 3/8" (111mm)	268 x 9954	4 11/16" (119mm)	—	—	—	
	Strike	Stile	Strike	Stile	Strike	Stile	Strike	Stile
8875	575	4 3/4" (121mm)	—	—	—	—	575-2 576A-576B	4 3/4" (121mm)
8875-F	575	4 3/4" (121mm)	—	—	—	—	575-2 576A-576B	4 3/4" (121mm)
	Strike	Stile	Strike	Stile				
8827 Latch Retraction	299 (Top) 304L/248L-4 (Bottom)		Single door	2 13/16" (71mm)	260U (Top) 385A (Bottom)		Single door	2 13/16" (71mm)
			Two vertical rod devices	2 1/2" (64mm)			Two vertical rod devices	2 1/2" (64mm)
			Vertical rod w/mortise lock device	4 3/4" (121mm)			Vertical rod w/mortise lock device	4 3/4" (121mm)
8827-F	Soffit Latch (Top) 304L (Bottom)		Two vertical rod devices	3 3/4" (95mm)	385A (Bottom)			
			Vertical rod w/mortise lock device	4 3/4" (121mm)				
8847-F	Soffit Latch (Top) 301L (Bottom)		Two vertical rod devices	4 3/4" (121mm)	304L (Bottom)		Single door	4 3/4" (121mm)
			Vertical rod w/mortise lock device	4 3/4" (121mm)			Two vertical rod devices	3 3/4" (95mm)
							Vertical rod w/mortise lock device	4 3/4" (121mm)

*Use for rim/vertical rod combination — consult factory.
**Use for rim/vertical rod combination on stock hollow metal doors — consult factory.
***For mullion information, refer to the General and Auxiliary catalog.

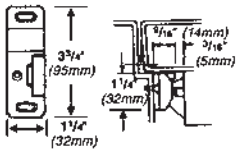
STRIKES FOR RIM DEVICES

264



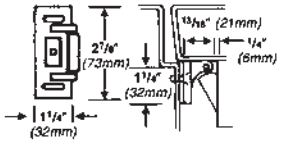
Projection 9/16" (14mm)

268



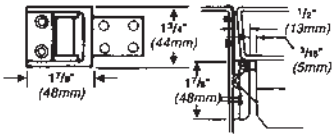
Projection 13/16" (21mm)

299



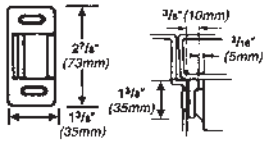
Projection 13/16" (21mm)

1409 – Blade Stop



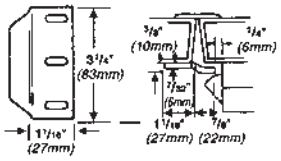
Projection 1/2" (13mm)

1606



Projection 3/8" (10mm)

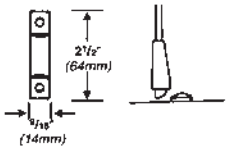
1609



For rim/vertical rod combination — consult factory

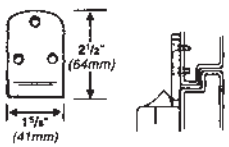
STRIKES FOR VERTICAL ROD DEVICES

248L-4



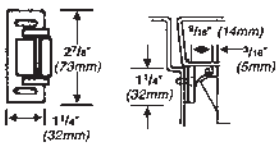
Projection 3/8" (10mm)

260U – Flush Transom Only



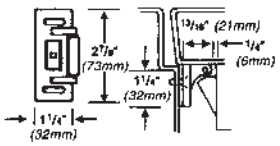
Projection 3/8" (10mm)

264



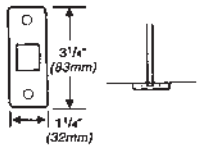
Projection 5/8" (16mm)

299



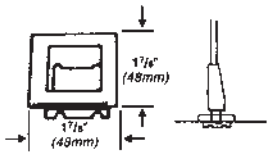
Mortise 2 1/2" (64mm)

301L



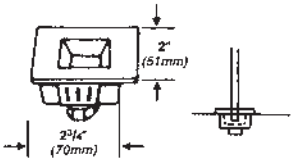
Mortise 3/4" (19mm)

304L



Mortise 13/16" (21mm)

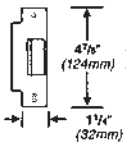
385A



Mortise 2 1/2" (64mm)

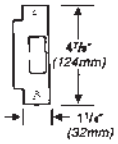
STRIKES FOR MORTISE LOCK DEVICES

575



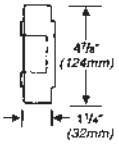
For use on 1 3/4" (44mm) or 2 1/4" (57mm) Single door and 2 1/4" (57mm) double door with coordinator.

575-2



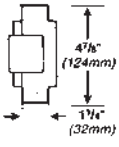
For use on 1 3/4" (44mm) thick double door with coordinator.

576A



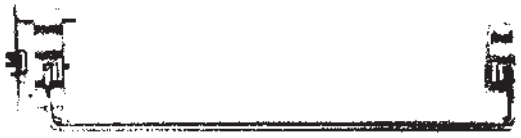
Open back strike for 1 3/4" (44mm) thick double doors without coordinator.

576B



Open back strike for 2 1/4" (57mm) thick double doors without coordinator.

E88 ELECTRIC RIM DEVICE



The E88 electric rim device provides remote unlocking capabilities. A control station operator can flip a switch to lock or unlock the outside trim. The 24 VDC solenoid assembly contains a SPDT signal switch to monitor the outside trim (locked or unlocked).

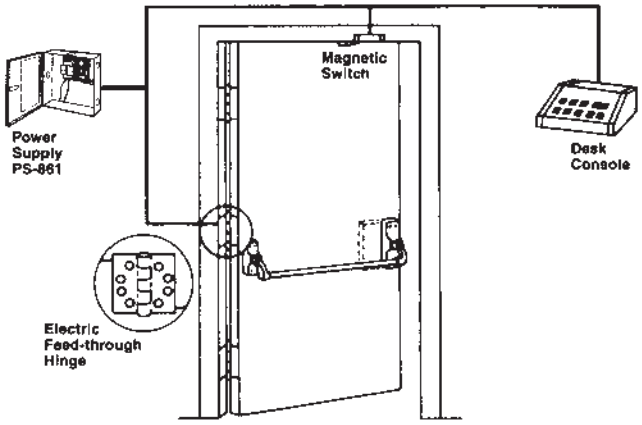
Available in fail safe or fail secure, 24 VDC or 24 VAC with rectifier. On fail secure models the trim returns to the locked mode after being operated either by the cylinder or momentary operation by the solenoid. The trim will remain unlocked if the solenoid remains energized.

Note: Some fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

Electrical Rating:
Each switch rated 0.3 Amp. 24 VDC.

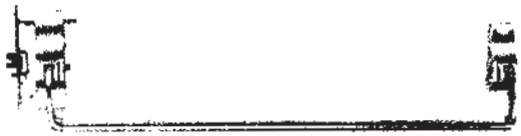
To order, specify:
1. Use prefix "E", example E88TP.
2. Handing, LHR or RHR, see page 22.
3. Voltage, 24 VDC or 24 VAC/SO.
4. FSE (fail secure) standard, specify FS (fail safe) when applicable.
5. Outside trim. "TP" or "K" function only

POPULAR E88 APPLICATION



Adaptable for openings where continuous latching is required while the trim may be electrically locked or unlocked from a remote location — stairwells, exterior doors, etc.

E8875 ELECTRIC MORTISE LOCK DEVICE



The E8875 electric mortise lock device has all the versatility and advantages of the 8875 mortise lock device, plus the advantage of being electrically controllable by a remote switching device, an access control or automatic device, or an automatic fire alarm system. The E8875 feature **controls the locking of the outside trim.** When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking, but require unlocking during a fire emergency. Key override is an NL type function.

Standard Features:
- Field reversible mortise lock
- 24 VDC continuous duty solenoid
- Tamper resistant (auxiliary dead latch)
- Silent operation
- Corrosion resistant
- Signalling functions
- Key mechanically retracts latchbolt.

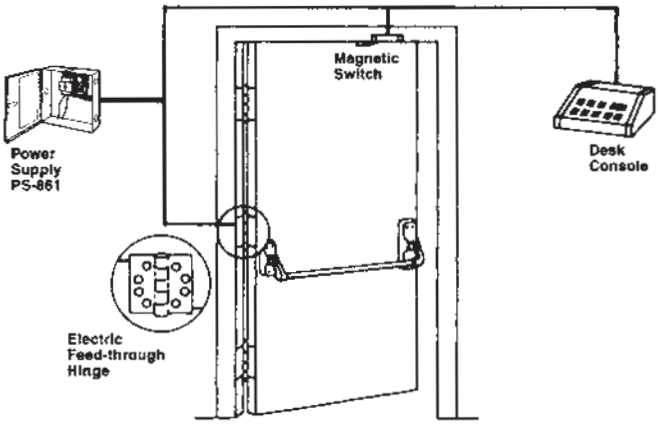
Optional Features:
- Fail safe (locked when energized, unlocked when de-energized or during power failure, specify with suffix "FS").
- Fail secure (unlocked when energized — specify with suffix "FSE"). Outside trim automatically relocks, unless held unlocked electrically.
- 24 VAC (by adding SO option).
- 12 VDC or 12 VAC with SO option.

Note: Some Fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

To order, specify:
1a. E8875 or E8875F.
1b. E7500 (if lock only is required).
2. FS or FSE.
3. Voltage.
4. Handing, LHR or RHR, see page 22.
5. Outside trim. "TP," "K," or "L-BE" function only. When using with "L" function, no cylinder operation is available. Outside control is furnished "BE".

Consult Electrical Accessories catalog for additional information.

POPULAR E8875 APPLICATION



Adaptable for openings where continuous latching is required while the trim may be electrically locked or unlocked from a remote location — stairwells, exterior doors, etc.

VERTICAL ROD AND LATCH GUARD — RG-27



Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. (If these bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.)

In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easily with the bumpers of a wheelchair. The latch guard portion is 10″ high. The standard latch guard features a 45° ramp. The extended latch guard offers a continuous ramp in 3′ or 4′ widths.

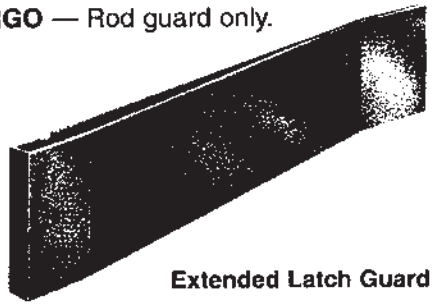


All stainless steel construction, in US32D finish. Latch guards can cover latches as large as 1¼″W × 10″H × 1⅞″ projection.

Models

RG-27 — Rod and latch guard.
RG-27-3 — 3′ *(914mm)* Extended rod and latch guard.
RG-27-4 — 4′ *(1219mm)* Extended rod and latch guard.

RGO — Rod guard only.

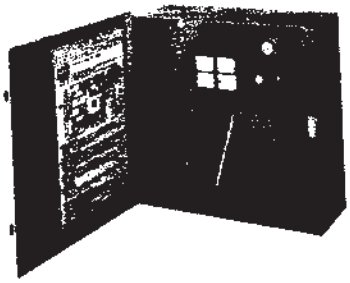


Extended Latch Guard

LGO — Latch guard only.
LGO-3 — 3′ *(914mm)* Extended latch guard only.
LGO-4 — 4′ *(1219mm)* Extended latch guard only.

To order, specify:
1. Model number

POWER SUPPLIES



Standard

UL Listed
Class 2, Power Supply
UL1012
UL1310

The series PS861 power supply is designed for electric locking or monitoring on single or double door applications. The output power is field selectable for either 24 VDC @ 1 ampere or 12 VDC @ 2 ampere. Standard input 120 VAC @ 0.6 ampere and 240 VAC @ 0.3 ampere available. Terminal block will accept up to 14 gauge stranded wire.

The gray enclosure is 10″ × 10″ × 4″ *(254mm × 254mm × 102mm)* has a hinged cover, and is constructed of heavy 19 gauge steel. Six ½″ *(13mm)* knockout holes are provided for conduit connection.

Options include keylock cover and sealed lead acid battery pack. The pair of batteries will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored.

FOUR MODELS:



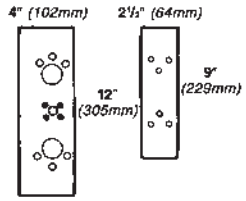
With keylock and batteries

PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861BK	Battery backup and keylock cover

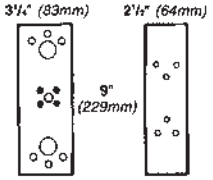
To order, specify:
1. Model number

COVER PLATE KITS

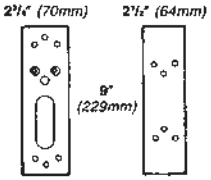
Devices



882



887



888

882 Kit

For 88 rim devices applied over mortise lock or discontinued device cutouts.

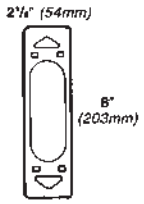
887 Kit

Required for 88 rim/ 8827 vertical rod device combinations on pairs of doors with ANSI 161 cutout. (The 88 rim device backset is increased and exposes the 161 cutout when used with 8827).

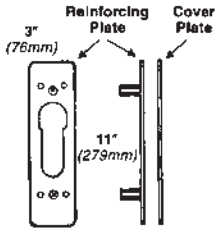
888 Kit

Required for 8875 mortise or 8827 vertical rod devices on doors with ANSI 161 cutouts (device center case will not cover stock cutout).

Controls



#10WDA



889

#10 WDA Kit

Required when 373L or 377T controls are used on wood doors with the following devices: 88L, 8827L, 8827TL, 8827TL-F, or 8875L (kit covers cutout and prevents control from damaging door).

889 Kit

Required when 373L controls are used with sex bolts (sex bolts must be used on wood or composite fire doors). Four studs on cover plate allow through-bolting to the device center case.

To order, specify:

1. Kit number.
2. Finish.
3. Device type (889 kit only).

AXLE SECURITY PIN

Non-removable security pin can be inserted into lever arm axle to prevent tampering or removal of lever arm.

To order, specify Part Number 033022 ***(package of 50).***

FINISHES

Color	US Number	BHMA Number
Brass, Polished	US 3	BHMA605
Brass, Dull	US4	BHMA606
Brass, Dull – oxidized	US10B	BHMA613
Chrome, Polished	US26	BHMA625
Chrome, Dull	US26D	BHMA626

Other finishes available, consult factory.

UL LISTED — FIRE EXIT HARDWARE LABEL/OPENING SIZE

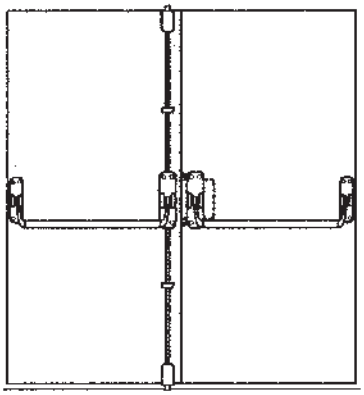
		Double Doors			
Exit Device	Single Door	With Mullion	Same Direction Vert./Vert.	Same Direction Vert./Mortise	Double Egress
88-F	3 Hour 4′×8′	3 Hour 8′×8′	—	—	—
8875-F	3 Hour 4′×10′	—	—	3 Hour 8′×10′	—
8827-F	—	—	90 Min.* 8′×8′	3 Hour 8′×8′	3 Hour 8′×8′
8847-F	—	—	90 Min. 8′×8′	3 Hour 8′×8′	3 Hour 8′×8′

*Wood door applications, 45 minute label.

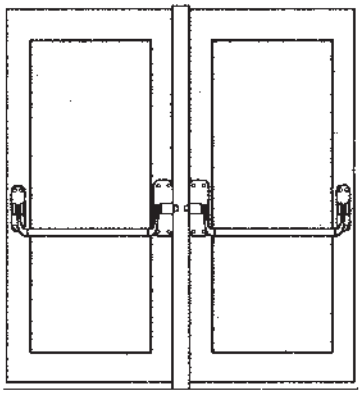
ANSI GRADE, TYPE & FUNCTION

Function	Grade 1 Type 1	Grade 1 Type 2	Grade 1 Type 3	Grade 1 Type 8
01	88EO, 88EO-F	8827EO, 8827EO-F	8875EO, 8875EO-F	8847EO-F
02	88DT	8827DT	8875DT	—
03	88NL, 88NL-F	—	8875NL, 8875NL-F	8847NL-F
05	88TP, 88TP-F	8827TP, 8827TP-F	8875TP, 8875TP-F	—
06	—	8827TP-NL, 8827TP-NL-F	—	—
08	88K, 88K-F 88L, 88L-F	8827K, 8827K-F 8827L, 8827L-F	8875K, 8875K-F 8875L, 8875L-F	8847L-F
09	88L, 88L-F	8827K-NL, 8827K-NL-F 8827L, 8827L-F	8875L, 8875L-F	8847L-F
11-12	—	8827TL, 8827TL-F	—	8847TL-F

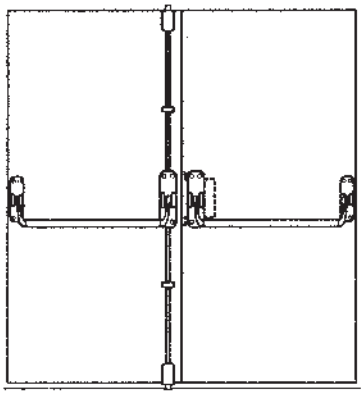
POPULAR DOUBLE DOOR APPLICATIONS



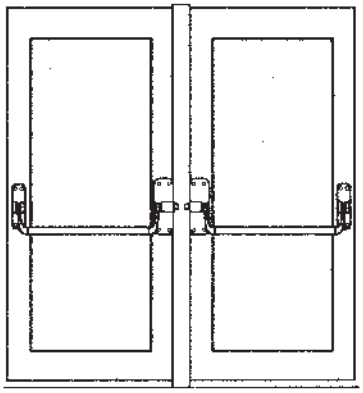
Mortise lock and surface mounted vertical rod device combination — same direction



Two rim devices with mullion — same direction



Two vertical rods — double egress



Two surface mounted vertical rod devices — same direction (do not use with overlapping astragal)

FUNCTION CONVERSION KITS

Device Type	Kit	Converts from –	Converts to –	Trim Included
88	CK-NL	TP, K	NL	880NL-R
	CK-TP	EO, DT, NL, K	TP	880TP-R
	CK-K	EO, DT, NL, TP	K	880K-R
	CK-K×373L	EO, DT, NL, TP	L	373L×889 Plate (NL, DT, TP)
88-F	CK-NL-F	TP-F, K-F	NL-F	880NL-R
	CK-TP-F	EO-F, NL-F, K-F	TP-F	880TP-R
	CK-K-F	EO-F, NL-F, TP-F	K-F	880K-R
	CK-K-F×373L	EO-F, NL-F, TP-F	L-F	373L×889 Plate (NL, DT, TP)
8827, 8827-F	CK27-TP	EO, DT, K (std. or fire)	TP (std. or fire)	880TP-V
	CK27-K	EO, DT, TP (std. or fire)	K (std. or fire)	880K-V
	CK27-K×373L	EO, DT, TP (std. or fire)	L (std. or fire)	373L×889 Plate (NL, DT, TP)

Conversion kits are required for 88 rim and 8827 devices. To convert functions on 8847 and 8875 devices, only new trim is required. The 8875 mortise lock is field convertible for function.

HOW-TO-ORDER INFORMATION

Rim and mortise lock devices, specify:

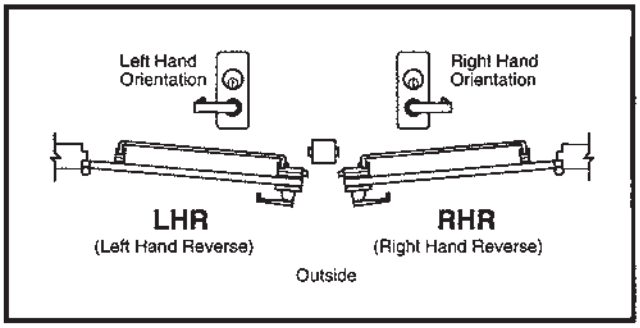
1. Exit device model number with trim selection. Examples: 88EO (Exit only with no outside trim). 88TP (Includes standard 880TP thumbpiece trim). 88TP × 608TP (Includes the optional 608TP thumbpiece trim).
2. Door width if greater than 4′ *(1219mm)*.
3. Door thickness if other than 1¾″ *(44mm)*.
4. Door and frame material if other than hollow metal.
5. Finish, see page 17.
6. Handing required on "L" function, "F" fire devices, and the E-88. Specify LHR or RHR. See diagram below.
7. "SNB" when using sex nuts and bolts.

Vertical rod devices, specify:

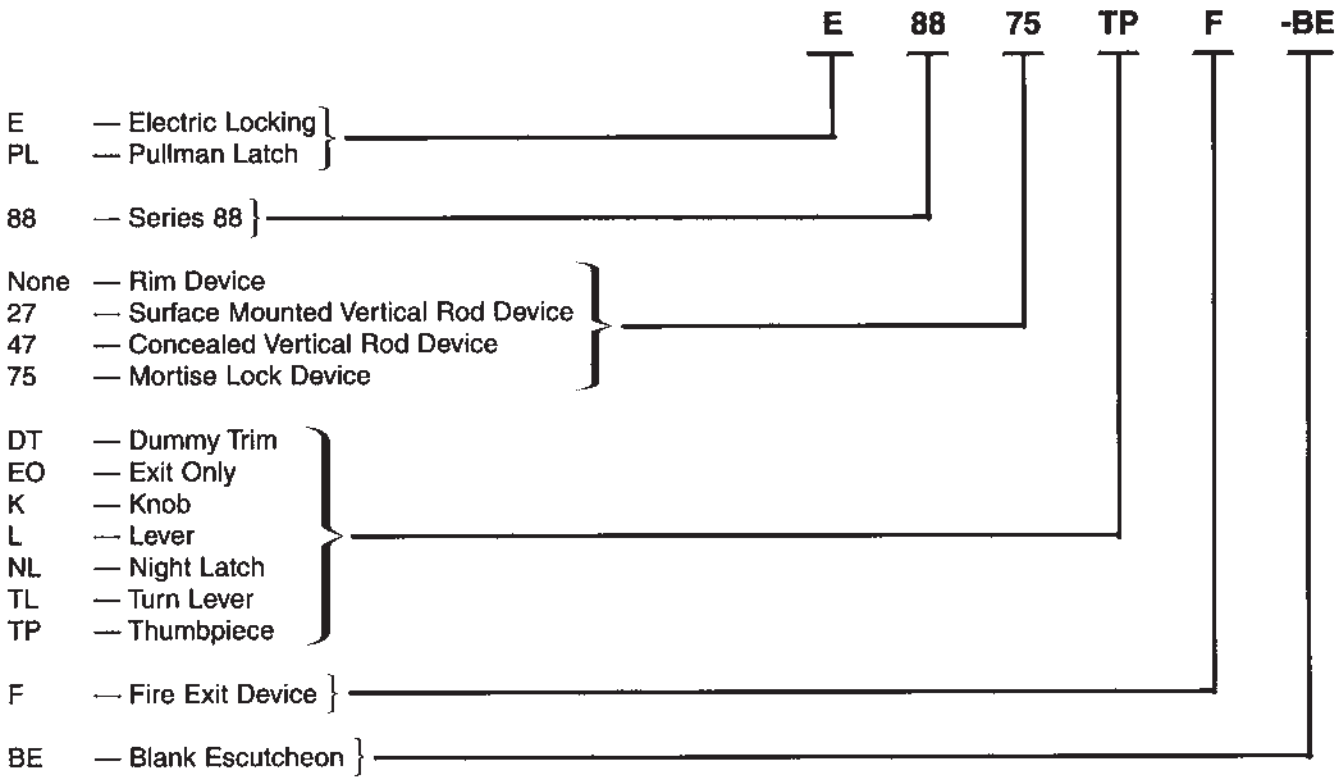
1. Exit device number with trim selection. Examples: 8827EO (Exit only, no outside trim). 8827TP (Includes 880TP thumbpiece trim). 8827TP × 608TP (Includes the optional 608TP thumbpiece trim).
2. Door width of greater than 4′ *(1219mm)*.
3. Door thickness if other than 1¾″ *(44mm)*.
4. Door and frame material if other than hollow metal.
5. Door height if greater than 7′ *(2134mm)*, extension rods must be ordered.
6. Finish, see page 17.
7. Handing, LHR or RHR, required on "L" and "F" fire devices. See diagram below.
8. "SNB" when using sex nuts and bolts.

Pullman latches are optional for 8827 devices. Latchbolts remain extended at all times. Specify "Pullman Latch" when required.

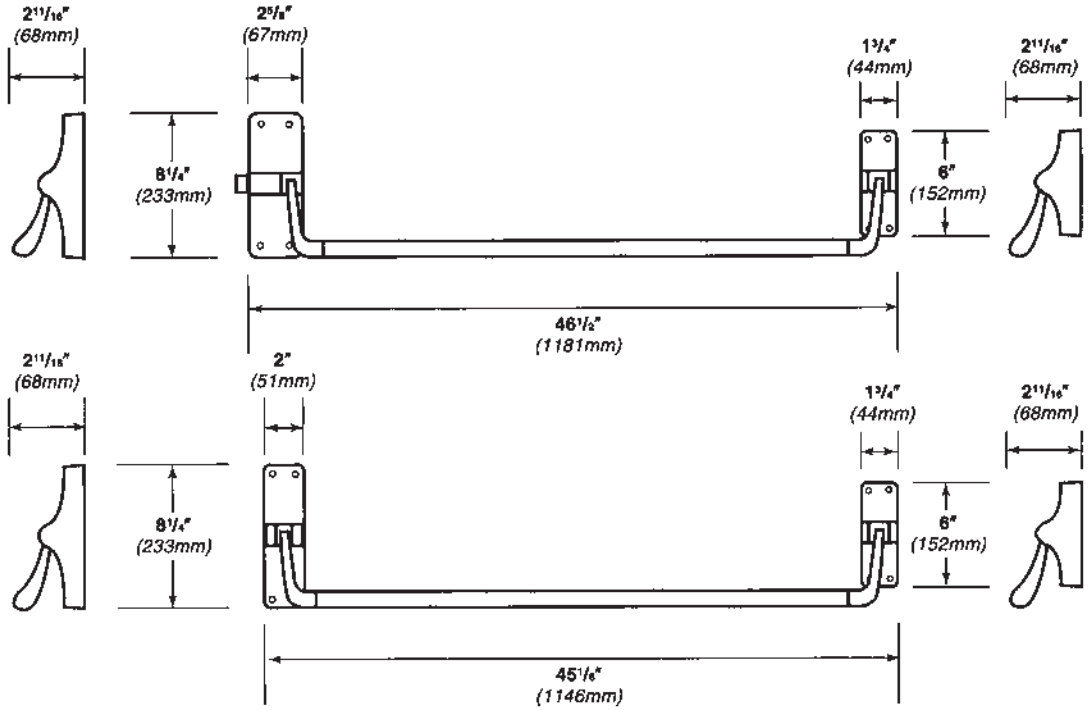
HANDING



NOMENCLATURE



DIMENSIONS



INGERSOLL-RAND
ARCHITECTURAL HARDWARE

Von Duprin Division

Ingersoll-Rand Company
2720 Tobey Drive
P.O. Box 6023
Indianapolis, IN 46206
(317) 897-9944

88/569/20

Printed in USA

VON DUPRIN®

98/99™ Series Exit Devices



Security & Safety
Proven Source. Proven Solutions.™

Finishes*



Color	US Number	BHMA Number
Chromium, Polished	US26	625
Anodized, Aluminum	US28	628
Chromium, Dull	US26D	626
Brass, Polished	US3	605
Brass, Dull	US4	606
Bronze, Dull	US10	612
Anodized Duranodic (Dark Bronze)	313AN	710
Anodized Black	315AN	—

Pushpad Options — Knurled
Embossed "Push"
Braille (Caution-Stairwell), satin stainless steel only
SS – (EMERGENCY EXIT – PUSH TO OPEN AND SOUND ALARM) – Red Silkscreen lettering on US32D

*** NOTE:** Durable powder coated finishes available at specific special request. PLEASE CONTACT FACTORY.

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Introduction

Exit devices are a critical part of the Fire and Life Safety egress system and will provide safe and reliable service when properly applied and maintained. Von Duprin designs and manufactures exit devices in accordance to ISO 9001 Quality Management System and meets or exceeds accepted U.S. domestic and International standards. All 98 and 99 series exit devices are UL listed for Panic Hardware or Fire Hardware, and are certified to ANSI A156.3, 2001, Grade 1. Many models are also certified for Hurricane Resistant Applications. Consult your local IR Security & Safety consultant or the Von Duprin factory for current listings.

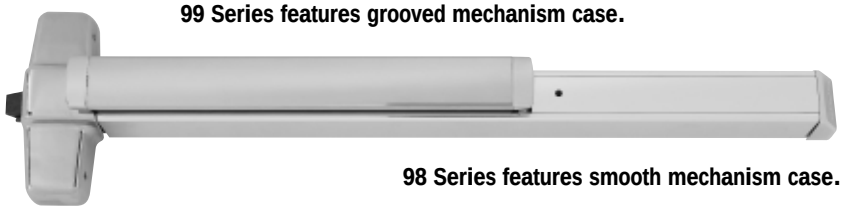
It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended that whenever an unusual application condition exists, or when any modification of a product is considered, that our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.



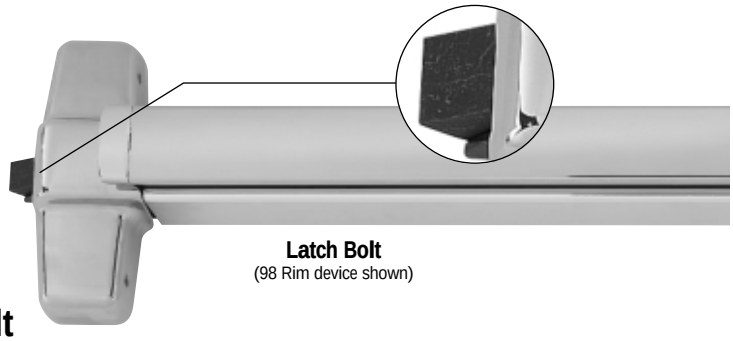
99 Series features grooved mechanism case.



98 Series features smooth mechanism case.

Von Duprin push pad exit devices are available in two external surface styles, designated 98 Series and 99 Series.

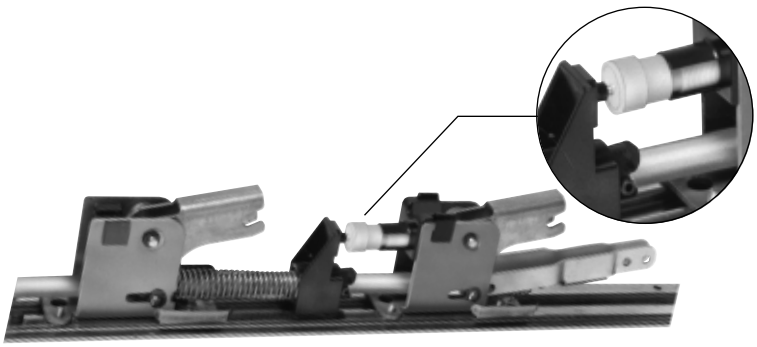
The two styles are mechanically and dimensionally identical and provide a wide selection of appearance options.



Latch Bolt
(98 Rim device shown)

Latch Bolt

Deadlocking latchbolt provides security and improved performance at standard device cost.



The Quiet One®

A fluid dampener decelerates the pushpad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all 98/99™ series exit devices.





299 Strike

98 and 99 rim exit devices for all types of single and double doors with mullion, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 98 device has a smooth mechanism case and the 99 device has a grooved case. The rim device is non-handed except when the following device options are used: SD (Special Dogging), -2 (Double Cylinder) or SS (Signal Switch). See Opposite page for available outside trim and device functions. Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

The 98/99 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 98 device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device		
Device Lengths	3'	2'4" to 3' (711mm to 914 mm) Door Size	
	4'	2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	299 – Dull Black Optional Strikes – see page 39		
Dogging Feature	Hex key dogging standard		
Dogging Options	CD	Cylinder Dogging	see page 48
	SD	Special Center Case Dogging	see page 48
	LD	Less Dogging	see page 48
Electric Options	LX	Latchbolt Monitor Switch	see page 42
	RX	Pushpad Monitor Switch	see page 42
	RX2	Double Pushpad Monitor Switch	see page 42
	E	Electric Locking & Unlocking	see page 44
	EL	Electric Latch Retraction	see page 43
	SS	Signal Switch	see page 43
	CX	Chexit Delayed Exit	see page 45
	ALK	Alarm Exit Kit	see page 42
Miscellaneous Options	PN	Pneumatic Latch Retraction	see page 48
	-2	Double Cylinder	see page 48
	GBK	Glass Bead Kit	see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities		
Latch Bolt	Deadlocking, ¾" (19mm) throw		
Device Centerline from Finished Floor	39 13⁄16" (1011 mm) 39 11⁄16" (1008 mm) with Mullion		
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)		
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)		
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)		

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 
Product Description	98EO 99EO	98DT 99DT	98NL 99NL	98NL-OP 99NL-OP
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	6

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged 
Product Description	98L 99L	98L-NL 99L-NL	98L-BE 99L-BE	98L-DT 99L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-R/V
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34





299F Strike



499F Strike
With 9854/9954
Mullion

98-F and 99-F rim fire exit devices for all types of single doors up to 4´ x 10´ *(1219mm x 3048mm)* or 8´ x 10´ *(2438mm x 3048mm)* double doors with 9954 or 9854 mullion, UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 98-F device has a smooth mechanism case and the 99-F device has a grooved case. The rim device is non-handed except when the following device options are used: -2 (Double Cylinder) or SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 98-F/99-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 98-F device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	299F – Dull Black, 499F with Mullions Optional Strikes – see page 39	
Dogging Feature	No Mechanical Dogging, EL option available	
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch E Electric Locking & Unlocking EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 42 see page 44 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction -2 Double Cylinder GBK Glass Bead Kit	see page 48 see page 48 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified	
Latch Bolt	Deadlocking, ¾" (19mm) throw	
Device Centerline from Finished Floor	39 13⁄16" (1011 mm) 39 11⁄16" (1008 mm) with Mullion	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

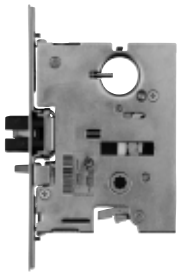
See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommened for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 
Product Description	98EO-F 99EO-F	— —	98NL-F 99NL-F	98NL-OP-F 99NL-OP-F
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6
#825 SNB Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommened for Fire Device) 
Product Description	98L-F 99L-F	98L-NL-F 99L-NL-F	98L-BE-F 99L-BE-F	— —
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-R/V
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2
#825 SNB Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

For optional trims and functions see pages 32-34







575 Strike

9875/9975 mortise lock device for all types of single or double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. Fits stock hollow metal doors with 86 cutout and door stiles as narrow as 4 ¾" *(121mm).* The 9875 device has a smooth mechanism case and the 9975 device has a grooved case. The mortise lock device is non-handed except when the following device options are used: -2 (Double Cylinder) or SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 9875/9975 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9875 device only. See page 52 for component finishes and the inside cover for finish chips.

The 7500 Mortise lock is equipped with a ¾" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L adjust NL drive screw in mortise lock		
Device Lengths	3'	2'4" to 3' (711mm to 914 mm) Door Size	
	4'	2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	575 – Dull Black Optional Strikes – see page 39		
Dogging Feature	Hex key dogging standard		
Dogging Options	CD	Cylinder Dogging	see page 48
	LD	Less Dogging	see page 48
Electric Option	RX	Pushpad Monitor Switch	see page 42
	RX2	Double Pushpad Monitor Switch	see page 42
	E	Electric Locking & Unlocking	see page 44
	EL	Electric Latch Retraction	see page 43
	SS	Signal Switch	see page 43
	CX	Chexit Delayed Exit	see page 45
	ALK	Alarm Exit Kit	see page 42
Miscellaneous Options	PN	Pneumatic Latch Retraction	see page 48
	-2	Double Cylinder	see page 48
	GBK	Glass Bead Kit	see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities		
Device Centerline from Finished Floor	39 ⅝" (1006 mm)		
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)		
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)		
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)		

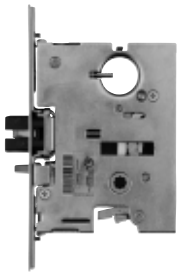
See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Hospital Latch** Key Locks & Unlocks
				
Product Description	9875EO 9975EO	9875DT 9975DT	9875NL 9975NL	9875HL 9975HL
Trim Description	—	990DT	990NL-M	HL6M
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" (*76x360x2mm*)	3" x 14³⁄₁₆" x ³⁄₃₂" (*76x360x2mm*)	2⁹⁄₁₆" x 5½" x 2⅝" (*65x140x67mm*)
Pull Center to Center	—	5½" (*140mm*)	5½" (*140mm*)	—
Projection	—	2" (*51mm*)	2" (*51mm*)	2⅝" (*67mm*)
ANSI Function	01	02	03	—
Cylinder Type	—	—	1¼" Mortise	1¼" Mortise
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutceon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged
				
Product Description	9875L 9975L	9875L-NL 9975L-NL	9875L-BE 9975L-BE	9875L-DT 9975L-DT
Trim Description	996L-M	996L-NL-M	996L-BE-M	996L-DT-M
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)
ANSI Function	08	09	—	02
Cylinder Type	1¼" Mortise	1¼" Mortise	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34







575 Strike

9875-F/9975-F fire exit mortise lock devices for all types of single doors up to 4´ x 10´ *(1219mm x 3048mm)* or 8´ x 10´ *(2438mm x 3048mm)* double doors installations, UL listed for Fire Exit Hardware; **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. Fits door stiles as narrow as 4 ¾" *(121mm).* The 9875-F device has a smooth mechanism case and the 9975-F device has a grooved case. The mortise lock device is non-handed except when the following device options are used: -2 (Double Cylinder) or SS (Signal Switch) devices. See Opposite page for available outside trim and functions.

The 9875-F/9975-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9875-F device only. See page 52 for component finishes and the inside cover for finish chips.

The 7500 Mortise lock is equipped with a ¾" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	575 – Dull Black Optional Strikes – see page 39	
Dogging Feature	No Mechanical Dogging, EL option available	
Electric Options	RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch E Electric Locking & Unlocking EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 44 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction -2 Double Cylinder GBK Glass Bead Kit	see page 48 see page 48 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg. specified	
Device Centerline from Finished Floor	39 ⅝" (1006 mm)	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)	

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommened for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Hospital Latch** Key Locks & Unlocks 
Product Description	9875EO-F 9975EO-F	— —	9875NL-F 9975NL-F	9875HL-F 9975HL-F
Trim Description	—	990DT	990NL-R/V	HL6M
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	2⁹⁄₁₆" x 5½" x 2⅝" *(65x140x67mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—
Projection	—	2" *(51mm)*	2" *(51mm)*	2⅝" *(67mm)*
ANSI Function	01	02	03	—
Cylinder Type	—	—	1¼" Mortise	1¼" Mortise
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 
Product Description	9875L-F 9975L-F	9875L-NL-F 9975L-NL-F	9875L-BE-F 9975L-BE-F	— —
Trim Description	996L-M	996L-NL-M	996L-BE-M	996L-DT-M
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	1¼" Mortise	1¼" Mortise	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

For optional trims and functions see pages 32-34



299 Top Strike



248L4
Bottom Strike
for use with
flat threshold



304L
Bottom Strike



Top Latch



Bottom Latch



9827/9927 surface mounted vertical rod device for all types of single or double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. The 9827 device has a smooth mechanism case and the 9927 device has a grooved case. The surface vertical rod device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9827/9927 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9827 device only. See page 52 for component finishes and the inside cover for finish chips.

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors. ***Refer to page 49***

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top - 299 – Dull Black, Bottom – 248L4 & 304L - Unfinished Optional Strikes – see page 39	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging	see page 48 see page 48 see page 48
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 42 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction LBR Less Bottom Rod GBK Glass Bead Kit PL Pullman Latch	see page 48 see page 49 see page 49 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors SNB furnished for top & bottom latches Optional SNB available for device, see next page for quantities	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝ " (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006 mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	½" square tubing, standard rods accommodate 7' (2134mm) door Top rod length is 34 15⁄16" (887mm) Bottom rod length is 31 ¼" (794mm) Extension rods available, 1' (205mm) or 3' (914mm) for doors over 7' One piece top rod available for 8' (2438mm) – 10' (3048mm) door	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required	**Thumbturn** Key Locks & Unlocks (Use with DT Trim)	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim)
						
Product Description	9827EO 9927EO	9827DT 9927DT	9827NL 9927NL	9827NL-OP 9927NL-OP	9827TL 9927TL	9827TL-BE 9927TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2⁹⁄₁₆" x 5½" x 2⅝" *(65x140x67mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged
				
Product Description	9827L 9927L	9827L-NL 9927L-NL	9827L-BE 9927L-BE	9827L-DT 9927L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-RV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34



299F
Top Strike



304L
Bottom Strike



499F
Top Strike - LBR





9827-F/9927-F fire exit surface mounted vertical rod device pairs of doors up to 8´ x 10´ *(2438mm x 3048mm)* , UL listed for Fire Exit Hardware.**See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9827-F device has a smooth mechanism case and the 9927-F device has a grooved case. The surface vertical rod device is non-handed except when the following device options are used: SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 9827-F/9927-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9827-F device only. See page 52 for component finishes and the inside cover for finish chips.

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors. Rod and latch guards can be used on hollow metal or tin clad composite fire doors. ***Refer to page 49***

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top – 299F (499F LBR) – Dull Black, Bottom – 304L - Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 **LBR Less Bottom Rod see page 49** GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors SNB furnished for top & bottom latches Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝ " (16mm) throw
Device Centerline from Finished Floor	39 ⅝" (1006 mm)
Door Undercut	¼" (7mm)
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	½" square tubing, standard rods accommodate 7' (2134mm) door Top rod length is 34 ¹⁵⁄₁₆" (887mm) Bottom rod length is 31 ¼" (794mm) Extension rods available, 1' (205mm) or 3' (914mm) for doors over 7' One piece top rod available for 8' (2438mm) – 10' (3048mm) door
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9827EO-F 9927EO-F	— —	9827NL-F 9927NL-F	9827NL-OP-F 9927NL-OP-F	9827TL-F 9927TL-F	9827TL-BE-F 9927TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 
Product Description	9827L-F 9927L-F	9827L-NL-F 9927L-NL-F	9827L-BE-F 9927L-BE-F	— —
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-RV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

For optional trims and functions see pages 32-34



299
Top & Middle Strike



248L4
Bottom Strike for use with threshold



304L
Bottom Strike



Top Latch

Bottom Latch



9857/9957 three-point latching device for all types of single or double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. The 9857 device has a smooth mechanism case and the 9957 device has a grooved case. The three-point latching device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9857/9957 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9857 device only. See page 52 for component finishes and the inside cover for finish chips.

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors. ***Refer to Page 49.***

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device		
Device Lengths	3'	2'4" to 3' (711mm to 914 mm) Door Size	
	4'	2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top & Middle-299–Dull Black, Bottom–248L4 & 304L-Unfinished Optional Strikes – see page 39		
Dogging Feature	Hex key dogging standard		
Dogging Options	CD	Cylinder Dogging	see page 48
	SD	Special Center Case Dogging	see page 48
	LD	Less Dogging	see page 48
Electric Options	LX	Latchbolt Monitor Switch	see page 42
	RX	Pushpad Monitor Switch	see page 42
	RX2	Double Pushpad Monitor Switch	see page 42
	EL	Electric Latch Retraction	see page 43
	SS	Signal Switch	see page 43
	CX	Chexit Delayed Exit	see page 45
	ALK	Alarm Exit Kit	see page 42
Miscellaneous Options	PN	Pneumatic Latch Retraction	see page 48
	LBR	Less Bottom Rod	see page 49
	GBK	Glass Bead Kit	see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors SNB furnished for top & bottom latches Optional SNB available for device, see next page for quantities		
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝" (16mm) throw Deadlocking Rim Bolt, ¾" (19mm) throw		
Device Centerline from Finished Floor	39 13⁄16" (1011 mm)		
Door Undercut	¼" (7mm)		
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)		
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)		
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)		
Vertical Rods	½" square tubing, standard rods accommodate 7' (2134mm) door Top rod length is 34 15⁄16" (887mm) Bottom rod length is 31 ¼" (794mm) Extension rods available, 1' (205mm) or 3' (914mm) for doors over 7' One piece top rod available for 8' (2438mm) – 10' (3048mm) door		
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)		

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged 	**Night Latch** Key Retracts Latchbolt 	**Night Lacth** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9857EO 9957EO	9857DT 9957DT	9857NL 9957NL	9857NL-OP 9957NL-OP	9857TL 9957TL	9857TL-BE 9957TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged 
Product Description	9857L 9957L	9857L-NL 9957L-NL	9857L-BE 9957L-BE	9857L-DT 9957L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-RV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34



299F
Top & Middle
Strike



304L
Bottom Strike



499F
Rim Strike
For Mullion
Applications





9857-F/9957-F fire exit three-point latching device for all types of single doors up to 4´ x 8´ *(1219mm x 2438mm)* or up to 8´ x 8´*(2438mm x 2438mm)* double doors with 9954 or 9854 mullion, UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9857-F device has a smooth mechanism case and the 9957-F device has a grooved case. The three-point latch device is non-handed except when the following device option is used: SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 9857-F/9957-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9827-F device only. See page 52 for component finishes and the inside cover for finish chips.

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors. ***Refer to Page 49.***

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top & Middle-299F–Dull Black, Bottom–304L-Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors SNB furnished for top & bottom latches Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝" (16mm) throw Deadlocking Rim Bolt, ¾" (19mm) throw
Device Centerline from Finished Floor	39 13⁄16" (1011 mm)
Door Undercut	¼" (7mm)
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	½" square tubing, standard rods accommodate 7' (2134mm) door Top rod length is 34 15⁄16" (887mm) Bottom rod length is 31 ¼" (794mm) Extension rods available, 1' (205mm) or 3' (914mm) for doors over 7' One piece top rod available for 8' (2438mm) – 10' (3048mm) door
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9857EO-F 9957EO-F	— —	9857NL-F 9957NL-F	9857NL-OP-F 9957NL-OP-F	9857TL-F 9957TL-F	9857TL-BE-F 9957TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2
#425 SNB Req. w/ 499F	2	2	2	2	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 
Product Description	9857L-F 9957L-F	9857L-NL-F 9957L-NL-F	9857L-BE-F 9957L-BE-F	— —
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-RV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike





9847/9947 concealed vertical rod device for use on single or double metal doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 9847 device has a smooth mechanism case and the 9947 device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 9847/9947 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9847 device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging	see page 48 see page 48 see page 48
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 42 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction LBR Less Bottom Rod GBK Glass Bead Kit PL Pullman Latch	see page 48 see page 49 see page 49 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities	
Latch Bolt	Deadlocking Top & Bottom Bolt, ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)	
Door Undercut	¼" (7mm) maximum	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)	

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9847EO 9947EO	9847DT 9947DT	9847NL 9947NL	9847NL-OP 9947NL-OP	9847TL 9947TL	9847TL-BE 9947TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-MD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged 
Product Description	9847L 9947L	9847L-NL 9947L-NL	9847L-BE 9947L-BE	9847L-DT 9947L-DT
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike





9847-F/9947-F fire exit concealed vertical rod device for use on pairs of doors up to 8´ x 10´*(2438mm x 3048mm)* , UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9847-F device has a smooth mechanism case and the 9947-F device has a grooved case. The concealed vertical rod device is non-handed except when the following device option is used: SS (Signal Switch) devices. See Opposite page for available outside trim and functions.

The 9847-F/9947-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9847-F device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 **LBR Less Bottom Rod see page 49** GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝" (16mm) throw
Device Centerline from Finished Floor	39 ⅝" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)
Door Undercut	¼" (7mm) maximum
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9847EO-F 9947EO-F	— —	9847NL-F 9947NL-F	9847NL-OP-F 9947NL-OP-F	9847TL-F 9947TL-F	9847TL-BE-F 9947TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-MD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 
Product Description	9847L-F 9947L-F	9847L-NL-F 9947L-NL-F	9847L-BE-F 9947L-BE-F	— —
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike



9848/9948 Concealed vertical rod device for use on single or double metal doors, UL listed for Panic Exit Hardware. Covers stock hollow metal doors with 86 or 161 cutouts. Devices are ANSI A156.3 – 2001 Grade 1. The 9848 device has a smooth mechanism case and the 9948 device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9848/9948 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9848 device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device		
Device Lengths	3'	2'4" to 3' (711mm to 914 mm) Door Size	
	4'	2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39		
Dogging Feature	Hex key dogging standard		
Dogging Options	CD	Cylinder Dogging	see page 48
	SD	Special Center Case Dogging	see page 48
	LD	Less Dogging	see page 48
Electric Options	LX	Latchbolt Monitor Switch	see page 42
	RX	Pushpad Monitor Switch	see page 42
	RX2	Double Pushpad Monitor Switch	see page 42
	EL	Electric Latch Retraction	see page 43
	SS	Signal Switch	see page 43
	CX	Chexit Delayed Exit	see page 45
	ALK	Alarm Exit Kit	see page 42
Miscellaneous Options	PN	Pneumatic Latch Retraction	see page 48
	GBK	Glass Bead Kit	see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities		
Latch Bolt	Deadlocking Top Bolt, ¾" (19mm) throw Deadlocking Bottom Bolt, 1 ½" (38mm) throw		
Device Centerline from Finished Floor	39 5/8" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 5/8" (1260mm)		
Door Undercut	¼" (7mm) maximum		
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)		
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)		
Top & Bottom Latch Case	4 ½" x 2 1/8" x 1 ½" (114mm x 54mm x 38mm)		
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)		
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)		

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9848EO 9948EO	9848DT 9948DT	9848NL 9948NL	9848NL-OP 9948NL-OP	9848TL 9948TL	9848TL-BE 9948TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-MD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged 
Product Description	9848L 9948L	9848L-NL 9948L-NL	9848L-BE 9948L-BE	9848L-DT 9948L-DT
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike





9848-F/9948-F concealed vertical rod device for use on pairs of doors up to 8´ x 10´*(2438mm x 3048mm),* UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9848-F device has a smooth mechanism case and the 9948-F device has a grooved case. The concealed vertical rod device is non-handed except when the following device option is used: SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9848-F/9948-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9848-F device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Top Bolt, ¾" (19mm) throw Deadlocking Bottom Bolt, 1 ½" (38mm) throw
Device Centerline from Finished Floor	39 5/8" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 5/8" (1260mm)
Door Undercut	¼" (7mm) maximum
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 1/8" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device)	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required	**Thumbturn** Key Locks & Unlocks (Use with DT Trim)	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim)
Product Description	9848EO-F 9948EO-F	— —	9848NL-F 9948NL-F	9848NL-OP-F 9948NL-OP-F	9848TL-F 9948TL-F	9848TL-BE-F 9948TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-MD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device)
Product Description	9848L-F 9948L-F	9848L-NL-F 9948L-NL-F	9848L-BE-F 9948L-BE-F	— —
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

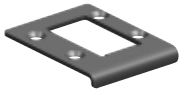
For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike



283
Top Strike
For use with
Wood Frames



Top Latch

Bottom Latch



9847WDC/9947WDC concealed vertical rod device for use on single or double wood doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 9847WDC device has a smooth mechanism case and the 9947WDC device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9847WDC/9947WDC devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9847WDC device only. See page 52 for component finishes and the inside cover for finish chips.

Scalp Plate Device is furnished standard with an 8" *(203mm)* long scalp plate for easy access to rods. *Note: Do not use on pair of doors with 9975.*

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging	see page 48 see page 48 see page 48
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 42 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction GBK Glass Bead Kit PL Pullman Latch	see page 48 see Page 49 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities	
Latch Bolt	Deadlocking Top & Bottom Bolt, ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)	
Door Undercut	¼" (7mm) maximum	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top & Bottom Latch Case	4 ½" x 2 1/8" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)	

See page 53 for How to Order specification

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9847/9947 Wood Door Concealed Vertical Rod Device
Standard Trim

	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required	**Thumbturn** Key Locks & Unlocks (Use with DT Trim)	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim)
						
Product Description	9847WDC-EO 9947WDC-EO	9847WDC-DT 9947WDC-DT	9847WDC-NL 9947WDC-NL	9847WDC-NL-OP 9947WDC-NL-OP	9847WDC-TL 9947WDC-TL	9847WDC-TL-BE 9947WDC-TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged
				
Product Description	9847WDC-L 9947WDC-L	9847WDC-L-NL 9947WDC-L-NL	9847WDC-L-BE 9947WDC-L-BE	9847WDC-L-DT 9947WDC-L-DT
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

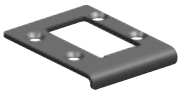
For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike



283
Top Strike
For use with
Wood Frames



Top Latch

Bottom Latch



9847WDC-F/9947WDC-F fire exit concealed vertical rod device for use on pairs of doors up to 8' x 9' 3" *(2438mm x 2819mm)* double wood doors, UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9847WDC-F device has a smooth mechanism case and the 9947WDC-F device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9847WDC-F/9947WDC-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9847WDC-F device only. See page 52 for component finishes and the inside cover for finish chips.

Scalp Plate Device is furnished standard with an 8" *(203mm)* long scalp plate for easy access to rods. *Note: Do not use on pair of doors with 9975.*

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 **LBR Less Bottom Rod see page 49** GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝" (16mm) throw
Device Centerline from Finished Floor	39 ⅝" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)
Door Undercut	¼" (7mm) maximum
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 1/8" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device)	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required	**Thumbturn** Key Locks & Unlocks (Use with DT Trim)	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim)
Product Description	9847WDC-EO-F 9947WDC-EO-F	— —	9847WDC-NL-F 9947WDC-NL-F	9847WDC-NL-OP-F 9947WDC-NL-OP-F	9847WDC-TL-F 9947WDC-TL-F	9847WDC-TL-BE-F 9947WDC-TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device)
Product Description	9847WDC-L-F 9947WDC-L-F	9847WDC-L-NL-F 9947WDC-L-NL-F	9847WDC-L-BE-F 9947WDC-L-BE-F	— —
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

For optional trims and functions see pages 32-34

Knob and Thumbpiece Trim

	Knob Key Locks & Unlocks	**Knob – Night Latch** Key Retracts Latchbolt	**Knob – Blank Escutcheon** Alwaya Operable (No Cylinder)	**Knob – Dummy Trim** Pull when Dogged	**Thumbpiece** Key Locks & Unlocks	**Thumbpiece Blank Escutcheon** Always Operable (No Cylinder)
						
Trim Description	991K	991K-NL	991K-BE	991K-DT	990TP	990TP-BE
Escutcheon Plate Size	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)
Pull Center to Center	—	—	—	—	5½" (*140mm*)	5½" (*140mm*)
Projection	3¼" (*83mm*)	3¼" (*83mm*)	3¼" (*83mm*)	3¼" (*83mm*)	2" (*51mm*)	2" (*51mm*)
ANSI Function	08	09	—	02	05	05
Cylinder Type						
Rim or Vertical Rod Device	Rim	Rim	—	—	Rim	—
Mortise Lock Device	1¼" Mortise	1¼" Mortise			1¼" Mortise	—
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2	2	2
#825 SNB Req. WD w/o SLM Pkg. F Rim device ONLY	2	2	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2	2	2

Lever Design Options



#01



#02



#03



#05



#06
Standard



#07



#12
Handed



#16



#17



#18

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996L Trim

The new 996L Breakaway™ trim has become the standard lever trim offering on the 98L/99L series devices. The 996L trim blends two successful Von Duprin designs; the look of the traditional 992L lever trim and the security and durability of the Von Duprin Breakaway™ design. The Breakaway™ design is especially effective in areas where vandalism to door hardware is a problem. The design intent is to discourage costly repairs from becoming necessary. The Breakaway™ feature is not available on the NL (night-latch) or DT (dummy trim) versions.

Optional Lever Trims – 992

	Lever Key Locks and Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always Operable (No Cylinder)	**Lever – Dummy Trim** Pull when Dogged (Not recommended for Fire Device)
				
Trim Description	992L	992L-NL	992L-BE	992L-DT
Escutcheon Plate Size	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)
Pull Center to Center	—	—	—	—
Projection	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)
ANSI Function	08	09	—	02
Cylinder Type				
Rim or Vertical Rod Device	Rim	Rim	—	—
Mortise Lock Device	1¼" Mortise	1¼" Mortise	—	—

The 992L trim series provides the traditional Von Duprin escutcheon design. Special versions available for doors of over 2 ¼" (*57mm*) thicknesses. Additionally available in an RX and E-locking/unlocking version.

Optional Lever Trims – 994

	Lever Key Locks and Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always Operable (No Cylinder)	**Lever – Dummy Trim** Pull when Dogged (Not recommended for Fire Device)
				
Trim Description	994L	994L-NL	994L-BE	994L-DT
Escutcheon Plate Size	2¾" x 9¼" x 27/32" (*70x235x21mm*)	2¾" x 9¼" x 27/32" (*70x235x21mm*)	2¾" x 9¼" x 27/32" (*70x235x21mm*)	2¾" x 9¼" x 27/32" (*70x235x21mm*)
Pull Center to Center	—	—	—	—
Projection	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)
ANSI Function	08	09	—	02
Cylinder Type				
Rim or Vertical Rod Device	Rim	Rim	—	—
Mortise Lock Device	1¼" Mortise	1¼" Mortise	—	—

Optional Lever Trims – 696/697

	Dummy Trim Pull when Dogged (Not recommended for Fire Device) 	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt 
Trim Description	696DT	697DT	696NL	697NL
Escutcheon Plate Size	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)
Pull Center to Center	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)
Projection	2⅛" (*52mm*)	3" (*76mm*)	2⅛" (*52mm*)	3" (*76mm*)
ANSI Function	02	02	03	03
Cylinder Type				
Rim or Vertical Rod Device	—	—	Rim	Rim
Mortise Lock Device	—	—	1¼" Mortise	1¼" Mortise
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2
#825 SNB Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

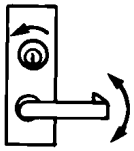
Optional Lever Trims – 696/697

	Thumbpiece Key Locks & Unlocks 	**Thumbpiece** Key Locks & Unlocks 	**Thumbpiece - Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbpiece - Blank Escutcheon** Always Operable (No Cylinder) 
Trim Description	696TP	697TP	696TP-BE	697TP-BE
Escutcheon Plate Size	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)
Pull Center to Center	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)
Projection	2⅛" (*52mm*)	3" (*76mm*)	2⅛" (*52mm*)	3" (*76mm*)
ANSI Function	05	05	05	05
Cylinder Type				
Rim or Vertical Rod Device	Rim	Rim	—	—
Mortise Lock Device	1¼" Mortise	1¼" Mortise	—	—
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2
#825 SNB Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

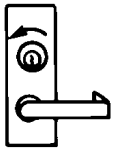
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Operation Options

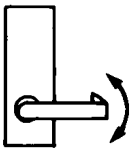
Lever and Knob Operations



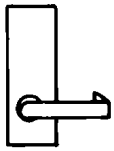
Standard operation, key locks and unlocks lever or knob. e.g., 996L (Classroom)



Night latch, key retracts latch bolt. Lever or knob is rigid. Use NL suffix, e.g. 996LNL. (Storeroom)



Blank escutcheon, lever or knob always active. Use BE suffix, e.g., 996L-BE. (Passage)



Dummy trim, lever or knob rigid for pull operation. Use DT suffix, e.g., 996L-DT.

374T/376T Series Thumbturn Control
(Shown with 990DT Trim)



Standard operation, key locks and unlocks thumbturn. Optional operation, key unlocks thumbturn, re-locks when key is removed. This operation is created by changing the cylinder plate included with control. Use 1¼" mortise cylinder with a straight cam. Schlage cam reference B502-191.

HL6 Exit Device Trim Option



Von Duprin and Glynn-Johnson have collaborated on an exit device trim that answers the problem of accessibility and performance.Using the Von Duprin 98/9975 mortise lock exit device along with the Glynn-Johnson HL6 Push/Pull latch, Ingersoll-Rand has created an exit device with mortise lock durability that utilizes a fully ADA compliant Pull paddle trim. The 98/9975HL device is available in all standard architectural finished and can be found in the Von Duprin device price list for easy ordering.

Vandal Resistant Trim

VR910 & VR914 Series

Features:

- Stainless Steel construction, 11 gage (0.120" thick)
- Thru-bolts and rugged mounting screws for maximum fastening strength.
- 10-24 screws supplied with VR910 & VR914 models.
- Built-in lock protector prevents vandalism to mortise latchbolt (available on certain models).
- Extra-tough stainless steel cylinder collar prevents pipe wrench or similar tool from damaging cylinder. Tapered design prevents side impacts from transferring directly to cylinder. Collar spins freely.
- Furnished with mounting screws for door thicknesses of 1¾" to 2¼"
- Finish: US32D
- VR910 grip coated in black plastisol for softer touch and resilience to temperature extremes. Grip designed for comfortable operation.
- VR914 grip in all stainless steel.
- Meets ANSI/BHMA 156.13, Trim Security Test and California State Accessibility Standards Title 24.
- 1½" (38mm) clearence from grip to door
- 1⅞" (48mm) total projection from door
- Consult IVES catalog for specification/ordering information.



Model	For Use With	Size
VR910DT & VR914DT	98/99 Rim or Vert. Rod Device	5¼" (133mm) w x 11" (279mm) h
VR910NL & VR914NL	98/99 Rim or Vert. Rod Device	5¼" (133mm) w x 11" (279mm) h
VR910M-DT & VR914M-DT	9875/9975 Mortise Device	7¼" (184mm) w x 11" (279mm) h
VR910M-NL & VR914M-NL	9875/9975 Mortise Device	7¼" (184mm) w x 11" (279mm) h

The Von Duprin Computer Managed CM993 Exit Trim is a stand-alone, battery-powered exit trim for use on doors where an exit device is required for egress. The CM993 is designed to be used with Von Duprin 98/99™ Rim and Vertical Rod exit devices for unmatched access control and ease of use. It can be programmed with LockLink™ or LockLink™ Express access control management software. The same software can also manage the Schlage CM Locks and the Locknetics Universal Controllers, which provide intelligent access control for electrified or battery-powered products such as magnets, strikes and cabinet locks.

Multiple users, Multiple access points. Multiple credential. One way to manage them.

Provides Unmatched Access Control

- Manages up to 1,000 users and provides audit trail for last 1,000 events
- SmarTime feature allows for time functionality:
  - 16 time zones
  - 16 time schedules
  - 32 holidays
  - first person in
  - time expiration
  - time activation
- Full-swipe mag stripe card reader for maximum readability and reliability
- Optional audit trail of mechanical key override
- Optional auto card updating feature disables a lost or stolen card when the reissued card is presented at the lock
- LED status indicators

Conversion to New Card System Not Necessary

- Our exit device trims most likely work with your existing mag card and HID prox cards



Von Duprin Programmable PRO993 Exit Trim For Manual Programming

- Manually program up to 120 keycodes right at the trim
- Similar mechanical features as CM993
- Complements Schlage PRO and Locknetics PRO series products

Easy To Retrofit…Easy To Operate And Architecturally Designed For New Construction

- Directly retrofits existing trim
- Fits doors from 1⅜" to 2¼" thick
- Comes with Schlage Everest 1¼" cylinder, but can adapt to other existing key systems
- LockLink software that programs the locks is Windows®-based and menu-driven. It can be operated with minimal training.





For use with Von Duprin 98/99™ Series Exit Devices including Rim, Surface Vertical, Concealed Vertical and Three-Point latching models. (Not for use with mortise devices).

NOT FOR USE WITH CHEXIT DEVICES

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CM993 – MGK – 06 – LH – KD – 695 – EXT

- **Select Model**
- **Select Access Credential Option**
- **Select Lever**
- **Select Handing**
- **Select Key Cylinder Option**
- **Select Finish**
- **Select Trim Options**

1. Select Model



CM993 Computer managed exit trim

PRO993 Manually programmed exit trim

2. Select Access Credential Option (CMs only)



KPI
Keypad iButton Reader



IBO
iButton Reader



MGK
Mag Card Reader Keypad iButton Reader



MGI
Mag Card Reader iButton Reader



PXK
HID prox Reader Keypad iButton Reader



PXI
HID prox Reader iButton Reader

3. Select Lever



#03



#06 Standard



#17

4. Select Handing

RH Right Hand
LH Left Hand
Note: Handing is field-reversible

5. Select Key Cylinder Option

KD Schlage Everest Cylinder
LC Less Cylinder
Note: Master keyed cylinders order separately

6. Select Finish:

605 Bright Brass
612 Satin Bronze
613 Oil-Rubbed Bronze
625 Bright Chrome
626 Satin Chrome (Standard)
695 Duranodic Dark Bronze

7. Select Trim Options

ATK Audit trail of mechanical key override, includes ATR (Requires computer programming).

T3 ABA Track 3 Mag Card Reader (ABA Track 2 is standard for MGI and MGK Series only).

EXT is now standard. Specify if for interior use.
Mag Card Reader for exterior use (for MGI and MGK Series only).

Select Credentials

IBA	iButton (adhesive backed)
IBF	iButton on Fob
MAG1	Magnetic Stripe Card – Blank
MAG2	Magnetic Stripe Card – Pre-encoded
PRX1	Prox Card – Standard .070" thick
PRX2	Prox Card – Adhesive backed for photo application, .070" thick
PRX3	Prox Card – ISO – credit card size and thickness, .031" thick
PRX4	Prox Card – Dual Technologies, magnetic stripe and Prox, .031" thick
PF1	Prox Fob

Door Thickness State door thickness. Available from 1⅜" to 2¾" in ⅛" increments

DEVICE TYPE	STANDARD SINGLE DOOR			STANDARD DOUBLE DOOR			OPTIONAL SINGLE DOOR			OPTIONAL DOUBLE DOOR		
	STRIKE	TRIM/STILE		STRIKE W/MULLION*	TRIM/STILE		STRIKE	TRIM/STILE		STRIKE W/MULLION*	TRIM/STILE	
		990/992 994/996	696/697		990/992 994/996	696/697		990/992 994/996	696/697		990/992 994/996	696/697
98/99	299	4-1/2" (114mm)	4-3/8" (111mm)	299 x 4954	4-7/8" (124mm)	4-3/4" (121mm)	1439 or 1410	3-13/16" (97mm)	3-13/16" (97mm)	299 x 5654	4-7/16" (113mm)	4-1/4" (108mm)
										1408 x 5754	3-13/16" (97mm)	3-13/16" (97mm)
							1606	4-1/16" (103mm)	3-15/16" (100mm)	1606 x 1654	4-7/16" (113mm)	4-1/4" (108mm)
98-F/99-F	299F	4-1/2" (114mm)	4-3/8" (111mm)	499F x 9954	4-7/8" (124mm)	4-3/4" (121mm)	—	—	—	499F x 9854 KR9954	—	—
9875 9975	575	4-3/4" (121mm)	4-3/4" (121mm)	575-2	—	—	—	—	—	576A-576B	4-3/4" (121mm)	4-3/4" (121mm)
9875-F 9975-F	575	4-3/4" (121mm)	4-3/4" (121mm)	575-2	—	—	—	—	—	576A-576B	4-3/4" (121mm)	4-3/4" (121mm)
9857 9957	299 (Top) 299 (Middle) 304L/284-L (Bottom)	4-1/2" (114mm)	4-3/8" (111mm)	299 x 4954	4-7/8" (124mm)	4-3/4" (121mm)	1439 or 1410	3-13/16" (97mm)	3-13/16" (97mm)	299 x 4954	4-7/16" (113mm)	4-1/4" (108mm)
										1408 x 5754	3-13/16" (97mm)	3-13/16" (97mm)
							1606	4-1/16" (103mm)	3-15/16" (100mm)	1606 x 1654	4-7/16" (113mm)	4-1/4" (108mm)
9857-F 9957-F	299F (Top) 299F (Middle) 304L (Bottom)	4-1/2" (114mm)	4-3/8" (111mm)	299F 499F x 9954 304L	4-7/8" (124mm)	4-3/4" (121mm)	—	—	—	—	—	—

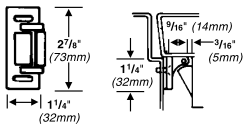
	STRIKE	APPLICATION	TRIM/STILE		OPTIONAL STRIKE	APPLICATION	TRIM/STILE	
			990/992 994/996	696/697			990/992 994/996	696/697
9827 9927 LATCH RETRACTION	299 (Top) 304L/248L-4 (Bottom)	Single Door	3-11/16" (94mm)	3-5/8" (92mm)	260U (Top) 385A (Bottom)	Single Door	3-11/16" (94mm)	3-5/8" (92mm)
PL9827/PL9927 PULLMAN LATCH	299 (Top) 304L/248L-4 (Bottom)	Two Vertical Rod Devices	3-11/16" (94mm)	3-5/8" (92mm)		Two Vertical Rod Devices	3-11/16" (94mm)	3-5/8" (92mm)
9827-F 9927-F	299 (Top) 304L (Bottom)				260U (Stainless) 385A (Bottom)			
9847 9947 9848 9948	338 (Top) 385A (Bottom)	Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)	304L (Bottom)	Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)
9847-F 9947-F 9848-F 9948-F	338 (Top) 385A (Bottom)	Two Vertical Rods	4-1/4" (108mm)	4-1/8" (105mm)	304L (Bottom)	Two Vertical Rods	4-1/4" (108mm)	4-1/8" (105mm)
		Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)		Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)
9847WDC 9947WDC	338 (Top) 385A (Bottom)	Single Door	4-1/4" (108mm)	4-1/4" (108mm)	304L	Single Door	4-1/4" (108mm)	4-1/4" (108mm)
		Two Vertical Rod Devices	4-1/4" (108mm)	4-1/4" (108mm)		Two Vertical Rod Devices	4-1/4" (108mm)	4-1/4" (108mm)
		Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)		Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)
9847WDC-F 9947WDC-F	338 (Top) 385A (Bottom)	Two Vertical Rod Devices	4-1/4" (108mm)	4-1/4" (108mm)	304L	Two Vertical Rod Devices	4-1/4" (108mm)	4-1/4" (108mm)

**Mullion information–refer to the General and Auxiliary catalog.*

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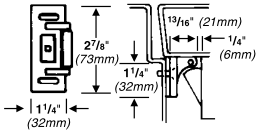
Strikes for rim devices

264



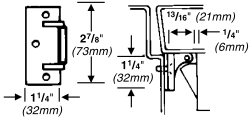
Projection 9/16" (14mm)

299



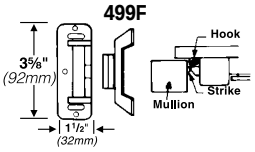
Projection 13/16" (21mm)

299F



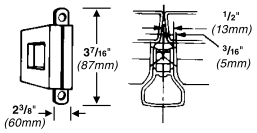
Projection 13/16" (21mm)

499F



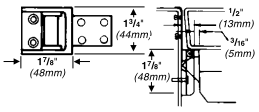
Projection 15/16" (24mm)

1408



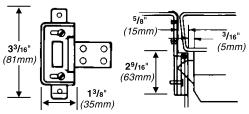
One per pair of doors

1439–Blade Stop



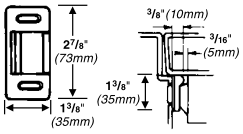
Projection 1/2" (13mm)

1410–Integral Stop



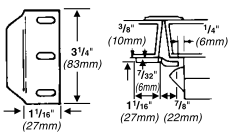
Projection 1/2" (13mm)

1606



Projection 3/8" (10mm)
Panic Devices Only

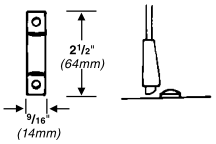
1609



- Requires Coordinator
- For Fire Rated Application, consult factory

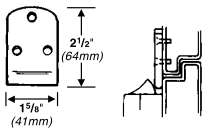
Strikes for vertical rod devices

248L-4



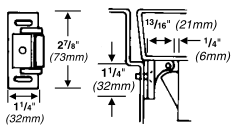
Projection 3/8" (10mm)

260U–Flush Transom Only



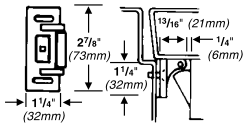
Projection 3/8" (10mm)
For Fire Rated Application, consult factory

299



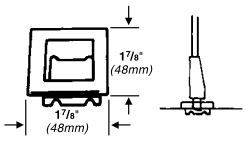
Projection 13/16" (21mm)

299F



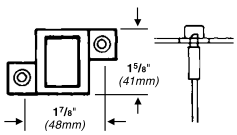
Projection 13/16" (21mm)

304L



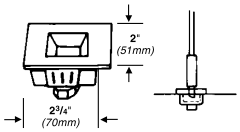
Mortise 13/16" (21mm)

338



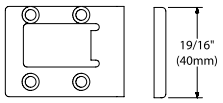
Mortise 5/8" (16mm)

385A



Mortise 2-1/2" (64mm)

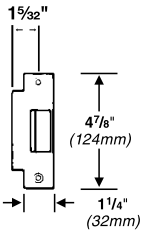
283



For use with WDC devices
when used with wood frames

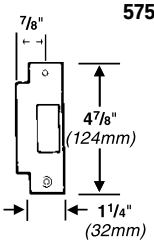
Strikes for mortise lock devices

575



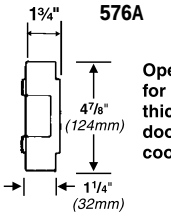
For use on 1 3/4" *(44mm)* or 2 1/4" *(57mm)* Single door and 2 1/4" *(57mm)* double door with coordinator.

575-2



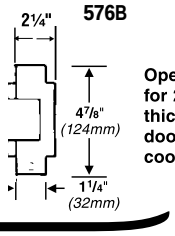
For use on 1 3/4" *(44mm)* thick double door with coordinator and astragal

576A



Open back strike for 1 3/4" *(44mm)* thick double doors without coordinator.

576B



Open back strike for 2 1/4" *(57mm)* thick double doors without coordinator.

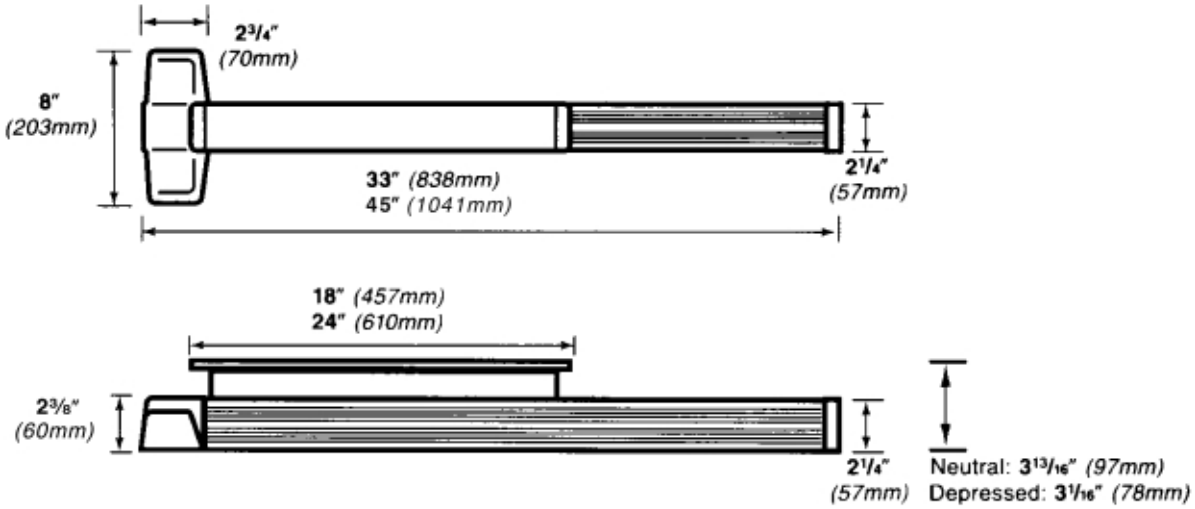
- Not for use with astragals
- Not for use on wood doors
- Acceptable for 90 minute pair of hollow metal doors

ANSI Grade, Type & Function

Function	Grade 1, Type 1	Grade 1, Type 2	Grade 1, Type 3	Grade 1, Type 7	Grade 1, Type 8	Grade 1, Type 9
01	98EO, 98EO-F 99EO, 99EO-F	9827EO, 9827EO-F 9927EO, 9927EO-F	9875EO, 9875EO-F 9975EO, 9975EO-F	9847WDC-EO & EO-F 9947WDC-EO & EO-F	9847EO, 9848EO-F 9947EO, 9947EO-F	9857EO, 9857EO-F 9957EO, 9957EO-F
02	98DT 99DT	9827DT 9927DT	9875DT 9975DT	9847WDC-DT* 9947WDC-DT	9848DT 9948DT	9857DT 9957DT
03	98NL, 98NL-F 99NL,99NL-F	9827NL, 9827NL-F 9927NL, 9927NL-F	9875NL, 9875NL-F 9975NL, 9975NL-F	9847WDC-NL & NL-F 9947WDC-NL & NL-F	9847NL, 9847NL-F 9947NL, 9947NL-F	9857NL, 9857NL-F 9957NL, 9957NL-F
05	98TP, 98TP-F 99TP, 99TP-F	9827TP, 9827TP-F 9927TP, 9927TP-F	9875TP, 9875TP-F 9975TP, 9975TP-F	9847WDC-TP & TP-F 9947WDC-TP & TP-F	9847TP, 9847TP-F 9947TP, 9947TP-F	9857TP, 9857TP-F 9957TP, 9957TP-F
07	98TP-2, 98TP-F-2 99TP-2, 99TP-F-2	— —	— —	— —	— —	— —
08*	98K, 98K-F 99K, 99K-F	9827K, 9827K-F 9927K, 9927K-F	9875K, 9875K-F 9975K, 9975K-F	9847WDC-K & WDC-K-F 9947WDC-K & WDC-K-F	9847K, 9847K-F 9947K, 9947K-F	9857K, 9857K-F 9957K, 9957K-F
08	98L, 98L-F 99L, 99L-F	9827L, 9827L-F 9927L, 9927L-F	9875L, 9875L-F 9975L, 9975L-F	9847WDC-L & WDC-L-F 9947WDC-L & WDC-L-F	9847L, 9847L-F 9947L, 9947L-F	9857L, 9857L-F 9957L, 9957L-F
09*	98K-NL, 98K-NL-F 99K-NL, 99K-NL-F	9827K-NL, 9827K-NL-F 9927K-NL, 9927K-NL-F	9875K-NL, 9875K-NL-F 9975K-NL, 9975K-NL-F	9847WDC-K-NL & WDC-K-NL-F 9947WDC-K-NL & WDC-K-NL-F	9847K-NL, 9847K-NL-F 9947K-NL, 9947K-NL-F	9857K-NL, 9857K-NL-F 9957K-NL, 9957K-NL-F
09	98L-NL, 98L-NL-F 99L-NL, 99L-NL-F	9827L-NL, 9827L-NL-F 9927L-NL, 9927L-NL-F	9875L-NL, 9875L-NL-F 9975L-NL, 9975L-NL-F	9847WDC-L-NL & WDC-L-NL-F 9947WDC-L-NL & WDC-L-NL-F	9847L-NL, 9847L-NL-F 9927L-NL, 9947L-NL-F	9857L-NL, 9857L-NL-F 9957L-NL, 9957L-NL-F
10*	98K-2, 98K-F-2 99K-2, 99K-F-2	— —	— —	— —	— —	— —
10	98K-2, 98K-F-2 99K-2, 99K-F-2	— —	— —	— —	— —	— —
11-12	— —	9827TL, 9827TL-F 9927TL, 9927TL-F	— —	9847WDC-TL & TL-F 9947WDC-TL & TL-F	9847TL, 9847TL-F 9947TL, 9947TL-F	— —

***Device is Grade 1, 991K trim is Grade 2.**

Dimensions



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UL Listed Fire Exit Hardware Label and Opening Size

Exit Device	Door Material	Single Door	Double Door						
			With 9954 Mullion	With 9854 Mullion	With KR9954 Mullion	With KR9854 Mullion	VR/VR Same Direction	VR/Mortise Same Direction	VR/VR Double Egress
98-F 99-F	Metal	3 Hour 4’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 8’	3 Hour 8’ x 8’	—	—	—
9875-F 9975-F	Metal	3 Hour 4’ x 10’	—	—	—	—	—	3 Hour 8’ x 10’	—
9827-F 9927-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 10’
9827LBR-F 9927LBR-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	—	3 Hour 8’ x 10’
9857-F 9957-F	Metal	3 Hour 4’ x 8’	3 Hour 8’ x 8’	3 Hour 8’ x 8’	3 Hour 8’ x 8’	3 Hour 8’ x 8’	—	—	—
9847-F 9947-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 10’
9847LBR-F 9947LBR-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	—	3 Hour 8’ x 10’
9848-F 9948-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 10’

*** Currently, no door manufacturers offer a listing over 90 minutes with doors swinging same direction.**
Consult wood door manufacturers for current UL listings.

Alarm Kit – ALK



The ALK battery alarm kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key. Thus allowing the exit device to be set in an armed or disarmed mode. The horn is rated at 85 decibel.

The key switch uses a standard 1¼" (32mm) mortise cylinder with a straight cam (Schlage Cam reference B502-191). The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal.

Also can be powered using the PS9 Power Supply. See PS9 for additional information.

Alarm kits are available with a choice of two switch kits, RX or LX. RX monitors the touchpad and is furnished standard. LX optional latch bolt monitoring is recommended for use with surface vertical rod exit devices. Specify ALK-LX.

Note: For latch bolt monitoring on a 98/9975 with ALK, specify a SS7500 lock. LX switch not available for 98/9975 devices.

The ALK is available in two styles, 33A/99ALK, grooved cover and 35A/98ALK, smooth cover.

The ALK includes "EMERGENCY EXIT ONLY. ALARM WILL SOUND" decal for application on door, or the SS push bar trim can be used instead of the door decal,specify SS push bar trim.

The ALK is available with 2 optional circuit boards. External Inhibit (EI) allows for the use of external switch to be used to arm, disarm and reset the alarm. Auto Reset (AR) rearms the alarm after a preset time. AR is available in three factory set times – 1½, 3 or 6 minutes.

To Order, Specify:

1. External Inhibit – ALK-EI
2. Auto Reset – ALK-AR3

When the ALK is used, standard dogging is removed. If cylinder dogging is required there are two choices. Special center case dogging is available or for 3' or 4' doors the ALK can be moved to the hinge side of the device and standard cylinder dogging can be added.

To Order, Specify:

1. Standard, 98NL ALK
2. Cylinder Dogging, CD98NL ALK
3. Special Center Case Dogging, SD98NL ALK

Minimum Door Opening Sizes on ALK Applications

Device	3' (914mm) Length	4' (1219mm) Length
98/98-F/99/99-F	2'9" (838mm)	3'3" (991mm)
9875/9875-F/9975/9975-F	2'9" (838mm)	3'3" (991mm)
9827/9827-F/9927/9927-F	2'8" (813mm)	3'2" (966mm)
9857/9857-F/9957/9957-F	2'8" (813mm)	3'2" (966mm)
9847/9847-F/9947/9947-F	2'8" (813mm)	3'2" (966mm)
9848/9848-F/9948/9948-F	2'8" (813mm)	3'2" (966mm)

Request to Exit — RX



The RX (Request to Exit) feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the pushpad.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The RX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resisitive maximum).

The RX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

- Standard – Use prefix RX, example RX99EO
- Low Current – Use prefix RX-LC, example RX-LC98EO

Double Request to Exit — RX2

The RX2 feature uses 2 RX switches. Also available with the Low Current (LC) switch.

To Order, Specify:

- Standard – Use prefix RX2, example RX299EO
- Low Current – Use prefix RX2-LC, example RX2-LC98EO

Latch Bolt Monitoring — LX



The LX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the latch bolt.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The LX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resistive maximum).

The LX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

- Standard – Use prefix LX, example LX99EO
- Low Current – Use prefix LX-LC, example LX-LC98EO

Electrical Rating for all Switches:

- Standard – up to 0.5 Amp @ 24VDC Maximum
- Low Current (LC) - up to .05 Amp @ 24VDC Maximum

Note: All Switches can be either factory or field installed

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Electric Latch Retraction — EL



The EL feature allows for the remote unlatching of exit devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt, either for momentary unlatching, or for extended periods of time. The EL feature is an alternative to manual dogging.

If manual hex-key dogging is required, specify HD-EL. If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-EL. SD-EL is not available on the 9875 or 9975 devices.

EL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an **automatic fire alarm system.**

UL approved for Class II circuit applications.

The EL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS873 power supply.

The PS873 with the 871-2 option card is minimum option card required. Other option cards available for other functions, see PS873 power supply for additional information.

Solenoid Specifications:

Continuous Duty — 24 VDC

Current Inrush — 16 Amps

Current Holding — 0.3 Amps

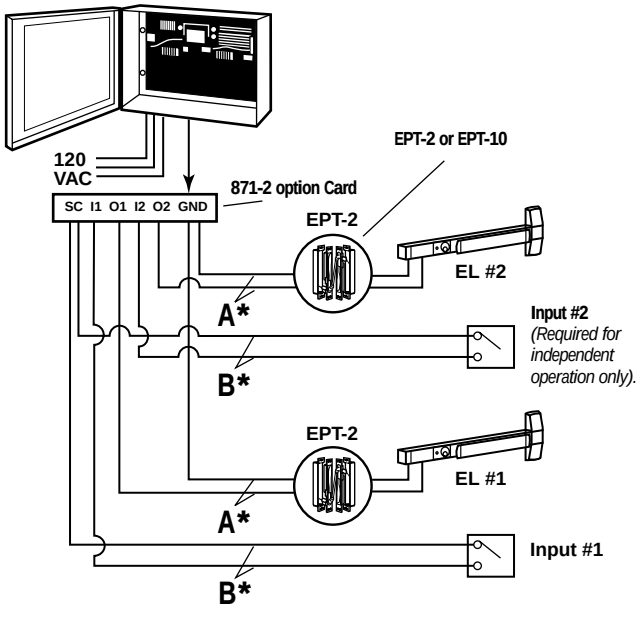
To order, specify:

Standard — Use prefix EL, example EL99L.
Hex Key dogging — Use prefix HD-EL, example HD-EL99L
Special Center Case Dogging — Use prefix SD-EL, example SD-EL99L

Popular EL Application

Power Supply PS873-2

Electric Power Transfer EPT-2 or EPT-10



Signal Switch — SS



Monitors pushpad and latch bolt

The SS feature is used to signal the unauthorized use of an opening. This device is equipped with two internal SPDT switches. One switch monitors both the pushpad and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1 ¼" *(32mm)* mortise with straight cam for alarm "bypass." (Schlage cam reference B502-191). The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Pushpad reads:
"EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM."
Pushpad is only available in US32D finish with red silk-screened lettering.

The SS mortise lock device is furnished with both the signal switch device and the SS7500 mortise lock. The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signalling functions to monitor latch bolt operation and the trim locking function. The SS7500 mortise lock is supplied standard with the SS mortise lock device.

To Order, Specify:

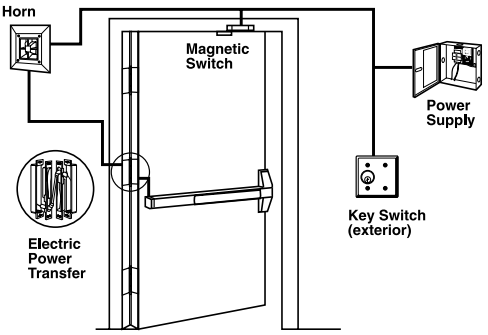
1. Prefix SS, example SS99L.
2. Handing Required, LHR or RHR.

Electrical Ratings:

Up to 2.0 AMPS @ 24VDC

Popular SS Application

Unauthorized use of this opening will activate the local horn.
The key switch permits inhibiting this system for authorized entry.



EL Device Wire Selection Size

A*

Run Length	EL Device w/EPT or Door Loop
0-100 ft.	14 gauge
100-200 ft.	12 gauge

A*

Run Length	EL Device w/Electric Hinge/Pivot
0-75 ft.	14 gauge
75-150 ft.	12 gauge

B*

Wire Selection	Switch Wire Size
1200 ft. Max.	18 gauge

Electric Mortise Lock Device — E



The electric mortise lock device has all the versatility and advantages of the standard mortise lock device, plus the advantage of being electrically controlled by a remote switching device, an access control system or an automatic fire alarm system. The device features the E7500 mortise lock. The E7500 controls the locking of the outside trim. When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking but require unlocking during a fire emergency. The outside trim cylinder retracts the latch bolt for mechanical override, night latch function. Only available with TP, K or L functions.

The E7500 lock contains a SPDT signal to monitor the outside trim condition (locked or unlocked) and a second SPDT signal switch to monitor the latch bolt.

Standard Features:
- Field reversible handing
- 24 VDC continuous duty solenoid

Optional Features:
- Fail safe (locked when energized, unlocked when de-energized or during power failure). Specify with suffix "FS."
- Fail secure (unlocked when energized, locked when de-energized or during power failure). Specify with suffix "FSE"
- 24 VAC (with SO option)
- 12 VDC
- 12 VAC (with SO option)

Note: Some Fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

Electrical Specifications:
- Solenoid — .60 AMPS @ 12VDC
  .30 AMPS @ 24VDC
- Each switch — Up to 2.0 AMPS @ 24VDC Maximum

The E option does not include the power transfer from door to frame, the power supply or the control operator. (Refer to EPT-10 and PS861 or PS873 power supply)

To Order, Specify:

1. Use prefix "E," example E9975.
2. FS or FSE
3. Voltage and current.

Electric Rim Device — E

The electric rim device provides remote locking and unlocking capabilities. A control station operator can flip a switch to lock or unlock the outside trim condition. The 24 VDC solenoid assembly contains a SPDT signal switch to monitor the outside trim condition (locked or unlocked), and a second SPDT signal switch to monitor the latch bolt.

The device is standard as fail safe (FS). When power is off, the trim is unlocked. The trim may then be relocked electrically by applying power. The device is field convertible for fail secure (FSE) applications.

The outside trim cylinder retracts the latch bolt for mechanical override, night latch function. Only available in TP, K or L function.

This feature does not include the power transfer from doors to frame, the power supply or control operator. Refer to the EPT-10 and PS861 or PS873 power supply.

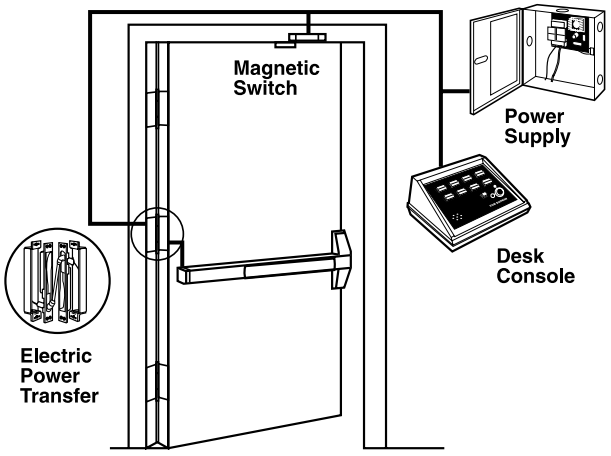
NOTE: LX switch not required for E99 rim device when latch bolt monitoring is required. E99 Rim has standard latch bolt monitoring feature.

Specifications:
- Solenoid – 0.25 AMPS @ 24VDC
- Each switch – Up to 2.0 AMPS @ 24VDC Maximum

UL listed FVSR SA163 panic hardware
And GXHX R4504(N) fire exit hardware

To Order, Specify:

1. Use prefix "E," example E99TP.
2. Handing Required, LHR or RHR.



Electric Mortise Lock Device or Electric Rim Device

Adaptable for openings where continuous latching is required while the trim may be electrically locked or unlocked from a remote location—stairwells, exterior doors, etc.

Minimum System Requirements:
- PS861
- EPT-10

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The Chexit®



Designed for use on delayed exit applications, the Chexit system is ideal for controlled areas.

All controls, auxiliary locking, local alarm, and remote signalling are self-contained in the Chexit, providing safe, secure, easy to install and simple to operate door control and exit hardware.

Chexit controlled exit device for use on Panic or Fire Exit hardware applications.

This concept in delayed exit systems combines life safety with the needs of security and meets all requirements of NFPA 101 for "Special Locking Arrangement."

The Chexit device includes decal for application on door.
"PUSH UNTIL ALARM SOUNDS.
DOOR CAN BE OPENED IN 15 SECONDS"

Solenoid Specifications:
- Continuous Duty – 24VDC
- Current Inrush – 16 amperes
- Current Holding – .3 amperes

Requires PS873 Power Supply

Request to Exit Switch:
Built into the device to detect when someone attempts to exit. Pushing the push pad when the device is armed will cause this switch to start an irreversible alarm cycle.

Nuisance Alarm:
When a Chexit is located in a public area, it can be desireable to limit false alarms. If the Nuisance Delay options are set to off, the device will go into alarm as soon as the push pad is touched (when armed). Turning the Nuisance Delay on will require the push pad to be pressed for 2 seconds before the Chexit goes into alarm. If the Nuisance Audible and Nuisance Delay are both on, the alarm will sound as soon as the push pad is pressed, but the alarm sequence will stop unless the push pad is held for 2 seconds or more.

Remote Alarm:
A set of relay contact are provided to give external alarm indication. These contact close when the device is in an irreversible alarm condition. These contact can be used to drive a horn, lamp, or other indicative device.

Key Switch:
The Key Switch provides the means to arm, disarm or reset the Chexit. The key can be removed in either the Arm or Disarm position.

Indicator Lamp:
The status of the Chexit can be determined by the indicator lamp. When the lamp is off, this indicates the device is disarmed and is functioning as a normal exit device (no delay). A continuously on lamp indicates the device has just been armed and as soon as the selectable rearm timer expires, the device will arm. A slow flashing lamp indicates the device is armed. A fast flashing indicator lamp indicates the device is in alarm.

Internal Horn:
Whenever the device is in alarm or the push pad is pressed the internal horn will sound. The volume level of this horn exceeds 85 db at 6 feet.

Door Position Input:
An external door position switch can be connected to the Chexit.

External Inhibit Input:
This optional input is provided to allow remote override of the Chexit in the armed condition. It also allows remoe reset of the Chexit in an alarmed condition.

Fire Alarm Input:
This input disables the Chexit immediately upon a fire alarm.

Internal Auxiliary Lock:
The Auxiliary Lock is engaged when the Chexit is armed. The locking mechanism is specifically designed to hold securely even when the exit device is struck with forceful blows.

User Defineable Rearm Time:
The Rearm time is the amount of time after the device is activated before it arms. It is designed to give someone time to pass through the door before rearming oocurs. Timing can be changed by the user for any time between 2 and 28 seconds in two second increments. There is also an infinite rearm setting that requires the use of an external door position switch. In this setting the door remains in the rearm mode until the door is closed. This can be useful on jet way doors in an airport.

***Factory Defineable Delay Time*:**
Most jurisdictions allow 15 seconds of delay before allowing egress. In those cases where 15 seconds is not appropriate, Von Duprin can set the Chexit for any delay time between 0 and 60 seconds on 2 second increments. For delays greater than 15 seconds a letter from the local authority is required.

Electrical Accessories

Power Supplies



SERIES PS873

The series PS873 power supply is designed to operate a wide variety of electrical products. EL panics require 871-2 PCB minimum. The regulated output power is field selectable for either 24VDC @ 2 ampere or 12VDC @ 4 ampere. Standard input 120VAC @ 1.0 ampere or 240VAC @ 0.5 ampere available. Enclosure is 10" high x 12½" wide x 5" deep *(254mm x 323mm x 127mm)*, gray with a hinged cover and constructed of heavy 19 gauge steel. Five ½" x ¾" *(13mm x 19mm)* knockout holes are provided for conduit connection. Terminal block will accept up to 12 gauge wire.

The PS873 can be ordered with three standard options: **Key lock** secures the cover to eliminate tampering and provides safety; **Battery backup** provides two hours backup power at full load during a A.C. power failure. Batteries will automatically recharge when failed power is restored. **Fire Alarm** provides input for a normally closed fire alarm contact. When the fire alarm contact is "open", power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

Eight standard configurations:

PS873	Standard
PS873K	With keylock
PS873B	With battery
PS873BK	With battery and keylock
PS873FA	With fire alarm
PS873K-FA	With keylock and fire alarm
PS873B-FA	With battery and fire alarm
PS873BK-FA	With battery, keylock and fire alarm

The series PS873 is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

Factory or Field Installed Circuit Cards:

871-2, Two Zone controller provides two inputs and two outputs. Will operate one or two EL exit devices. Use suffix "-2" for factory installed, example PS873-2.

873-AL, Alarm function monitors 1 or 2 zones and provides alarm output, upon detecting a door in the open position. Delayed alarming is selectable from 5 to 75 seconds. Use suffix "-AL" for factory installed, example PS873-AL

873-AO, Auto Operator function coordinates the release of one or two locks and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods; by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by a "RX" type input switch. Use suffix "-AO" for factory installed, example PS873-AO

873-SI, Security/Safety Interlock provide interlock function for two zones. When combined with a second 873-SI card, the inter-locking of groups are available in two, three or four zones. Safety interlock is available, consult factory for additional information. Use suffix "-SI" for factory installed, example PS873-SI

873-4TD, Four Zone controller with **Time Delay** provides four inputs and four outputs with time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. Will operate up to 4 EL devices. Use suffix "-4TD" for factory installed, example PS873-4TD

873-AC, Access Control provides supervision of one zone using an electromagnetic lock. Input signals required are: access control contact, motion detector contact, and motion detector override contact. FA, Fire Alarm option is required. Use suffix "-AC" for factory installed, example PS873-AC

Factory Installed Only Circuit Card

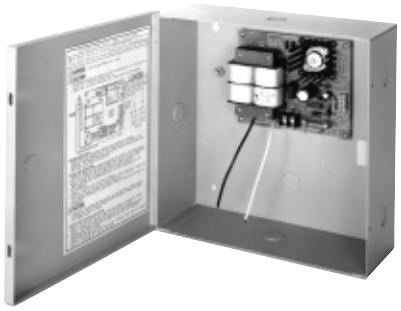
873-DE, Delayed Egress provides 15 second delay release from pushbar activation to electro-magnetic lock release. Ideal function for use with Locknetics electromagnetic locks, will operate two zones simultaneously. To operate two separate zones, a second 873-DE card is required. UL listed component, when used as part of a Von Duprin delayed egress system. Use suffix "- DE", example, PS873-DE.

Note: "DE" cards CANNOT be combined with any other optional cards.

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Electrical Accessories

Power Supplies
PS861 Power Supply



Standard
UL Listed
Class 2, Power Supply
UL1012
UL1310

The series PS861 power supply is designed for electric locking or monitoring on single or double door applications. The output power is field selectable for either 24 VDC @ 1 ampere or 12 VDC @ 2 ampere. Standard input 120 VAC @ 0.6 ampere and 240 VAC @ 3.0 ampere available. The terminal block will accept up to 14 gauge stranded wire.

The gray enclosure is 10" x 10" x 4" *(254mm x 254mm x 102mm)*, has a hinged cover, and is constructed of heavy 19 gauge steel. Six ½" *(13mm)* knockout holes are provided for conduit connection.

Options include keylock cover or Battery Backup. The pair of batteries, which are sealed lead acid battery packs, will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored.

Four Models:

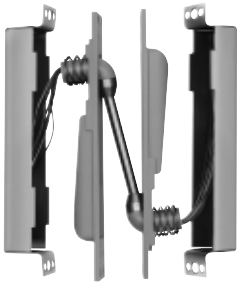
PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861FA	Fire Alarm
PS861BK	Battery backup and keylock cover
PS861BKFA	Battery backup and keylock cover with FA board (24VDC only)

PS9 Power Supply

The PS9 is an AC power supply that provides 9 VDC power to operate the ALK alarm kit. The unit will power one or two alarm kits. Included is a 9-volt sealed battery that provides backup power in case of an AC power failure.



Electrical Power Transfer –– EPT
Pneumatic Transfer – PNT



Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suite for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires. The EPT-2 and EPT-10 are U/L listed as "miscellaneous door accessory".

Pneumatic Controls

PNT-1 is available for pneumatic latch retraction exit devices. Appearance and dimensions are identical to EPT models.

UL Listed for use on firedoors

Door applications:
up to 5" butt hinges – 180˚ swing,
5 ½" butt hinges – 130˚ swing,
6" butt hinges – 110˚ swing,
¾" butt offset pivots 180˚ swing.

Not for use with swing clear hinges or center-hung pivots.

Finishes

SP28 (sprayed aluminum)

SP313 (sprayed duranodic).

Dimensions

Housing	9" x 1 ¼" x 1 ⅝" *(229mm x 32mm x 38mm)*
EPT-2	Two 18 gauge wires, Up to 2 AMPS @ 24VDC, with a 16 AMPS Maximum Surge
EPT-10	Ten 24 gauge wires, Up to 1 AMPS @ 24VDC, with a 16 AMPS Maximum Surge
PNT-1	5⁄32" Tubing

To order, specify:

1. EPT-2 ,EPT-10 or PNT-1.
2. Finish, SP28 or SP313.

Pneumatic Controlled Exit Devices–PN



The PN feature provides remote latch bolt retraction in hazardous areas where electrically operated devices would not be permitted. The pneumatic solenoid will retract the latch bolt for momentary or prolonged periods. PN exit devices are particularly suited for use with automatic door operators. The PN feature is available on both Panic and Fire Exit Hardware devices.

The PN feature includes a special actuating linkage that gives building owners the option of mechanically or pneumatically dogging the exit device. If manual hex-key dogging is required, specify HD-PN (Dogging the device, whether mechanically or pneumatically, makes the device function as a push/pull unit and reduces the wear on its moving parts.) If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-PN. SD-PN is not available on the 9875 or 9975 devices.

When activated pneumatically, the latch bolt(s) of the exit device retract in ½ to 1 ½ seconds. This pneumatic operation uses air pressure ranging from 50 to 100 pounds per square inch.

This product will function only when it is part of a pneumatic system (air compressor, air lines, pneumatic system, etc.). Contact LCN for correct control boxes

To Order, Specify:

- Standard — Use prefix PN, example PN99NL
- Hex Key Dogging — Use prefix HD-PN, example HD-PN99NL
- Special Center Case Dogging — Use prefix SD-PN, example SD-PN99NL

Double Cylinder – 2



Double cylinder features an inside key cylinder which locks or unlocks the outside trim and an outside key cylinder which retracts the latch bolt only(Night Latch Function) . Available on rim or mortise lock device.

Rim requires two rim type cylinders. Mortise device requires 1 rim cylinder and 1 mortise cylinder 1¼" with a straight cam. (Schlage cam reference B502-191.)

Available functions are thumbpiece, knob or lever.

To Order, Specify:

1. Suffix-2 with device/trim number, example 99TP-2.
2. Handing required, LHR or RHR.

Less Dogging – LD

Less Dogging is available in all 98/99™ Panic Exit devices to remove the dogging option.

To Order, Specify:

- Use prefix LD, example LD99L

Special Center Case Dogging – SD



Special cylinder dogging in the center case is available for Chexit, EL, ALK panic devices to allow for mechanical push/pull operation. With this option, the latchbolt is held retracted and pushbar is still operable. Specify handing — RHR or LHR.

SD requires 1 ¼" (32mm) mortise cylinder with a straight cam. (Schlage cam reference B502-191.)

Note: Available on Rim and Vertical Rod Panic Exit Devices only.

To Order, Specify:

- Use prefix SD, example SD99L

Cylinder Dogging — CD



Cylinder dogging is available on all 98/99™ Panic Exit devices to replace the standard hex key dogging. Unit requires a standard 1¼" *(32mm)* mortise cylinder with a straight cam (Schlage Cam B502-191 reference).

To Order, Specify:

- Use prefix, CD, example CD99L

Cylinder Dogging Kit — CDK

For field conversion, a cylinder dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99CDK or **35A/98CDK**, specify finish.

Hex Key Dogging Kit — HDK

For field conversion, a hex key dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99HDK or **35A/98HDK**, specify finish.

Braille, Embossed and Knurled Touchpads



Braille touchpad is embossed with the message “CAUTION STAIRWELL” in braille and raised letters provides assistance to person with impaired vision. Letters are ½" (13mm) high and braille is #2, raised height is 3⁄32" (2mm). Other messages are available on special order, limited to 20 characters per line.

Embossed touchpad is embossed with the word “PUSH”
Knurled touchpad is to provide warning to person with impaired vision.

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Vertical Rod and Latch Guard — RG-27



Rod Guard

Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. (If bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.)

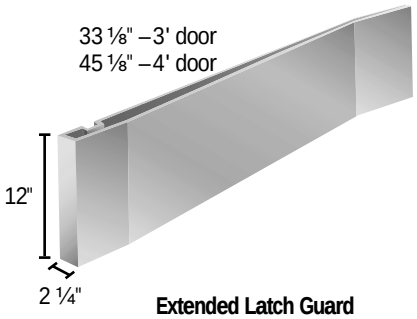
In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easily with the bumpers of a wheelchair. The latch guard portion is 10" high. The standard latch guard features a 45° ramp. The extended latch guard offers a continuous ramp in 3' or 4' widths.

All stainless steel construction in US32D finish. Latch guards can cover latches as large as 1¼"W x 10"H x 1⅞" projection.



Latch Guard

Models
RGO — Rod guard only (Projection 1 3⁄16").
RG-27 — Rod and latch guard.
RG-27-3 — 3' *(914mm)* Rod Guard and Extended Latch Guard.
RG-27-4 — 4' *(1219mm)* Rod Guard and Extended Latch Guard.



Extended Latch Guard

LGO — Latch guard only.
LGO-3 — 3' *(914mm)* Extended latch guard only.
LGO-4 — 4' *(1219mm)* Extended latch guard only.

Note: Not for use on wood fire doors

To Order, Specify:

1. Model number.
2. Handing (except on RGO).
3. Door material if other than Hollow Metal.
4. Optional sex bolt mounting available.

Less Bottom Rod – LBR

LBR option is available, using a spring loaded auxiliary latch bolt installed in the lower door edge. When exposed to heat the auxiliary latch bolt releases, keeping the doors in alignment and closed during a fire. UL listed 3 hours on hollow metal doors double egress, 90 minute swinging same direction, and 20 minutes wood doors (consult wood door manufacturer). Fits door stiles as narrow as 3⅝".

LBR devices must be ordered in pairs or must be used in conjunction with an approved automatic or constant latching flush bolt.

Pullman Latch – PL

When PL is specified the standard latches are replaced with pullman style latches. Pullman latches are always extended and are most commonly used in conjunction with electric strikes and LBR-less bottom rod application. Not available with Fire rated devices. Not recommended where security is of the utmost since latches do not deadlock.

Glass Bead Kit – GBK

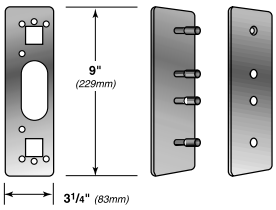
Glass bead conversion kits are available for all 98/99™ Series devices for use on doors with raised glass beads. Each kit consists of ¼" *(6mm)* shim sets. GBK for Surface Vertical Rod ships with ⅛" shims for rod guides.

To order, specify:

1. 99GBK
2. Device type (Rim, Mortise, Surface Vertical Rod, Concealed Vertical Rod)
3. Wood Door, when used with Concealed Vertical Rod

997 Cover Plate Kit

For 99 rim device, kit contains inside and outside plates for hinge stile cutouts, an inside plate for the lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations. Specify finish.



Dummy Pushpad



The 330 dummy pushpad is designed as a companion unit for all 99 devices. The 350 dummy pushpad is a companion unit for all 98 devices. The pushpad is rigid or nonfunctioning. A push/pull operation can be accomplished by using 990DT, 996DT trim or any Ives Pull.

The 330/350 can be equipped with a functional pushpad and will accommodate an RX switch. Specify RX-330. May also be equipped with the RX2, double RX switch. Specify RX2-330

To order, specify:

1. 330 or 350.
2. Size 3' or 4' *(914mm or 1219mm)*
3. Finish, US3, US4, US10, US26, US26D, US28, 313AN, 315AN, 350 Only US32D.

Cylinders

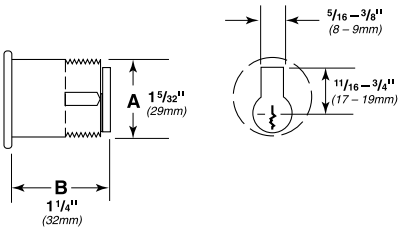
Cylinders are not furnished with device or trim and must be specified when ordering. Refer to trim pages for cylinder type.



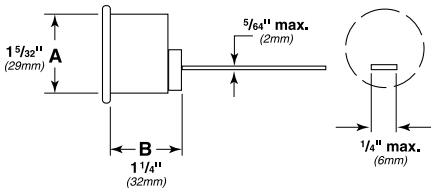
Mortise — 3215 (Schlage B502-191 cam)



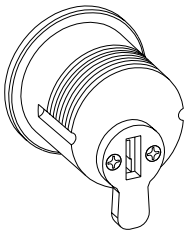
Rim 3216



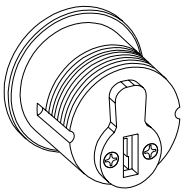
Dogged (Inverted) Cam



Undogged Cam
(Standard Operations)

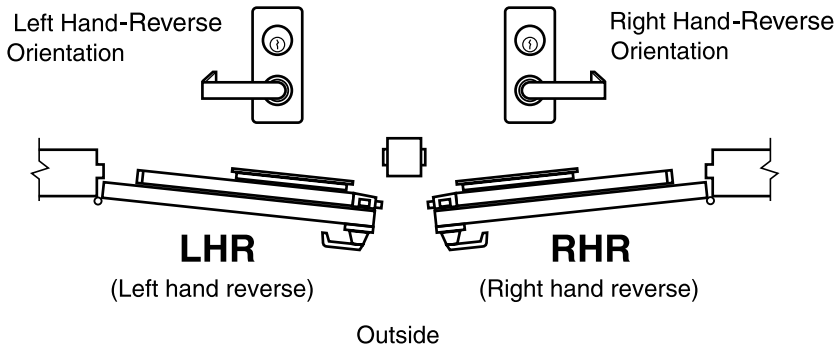


For Cylinder Dogging



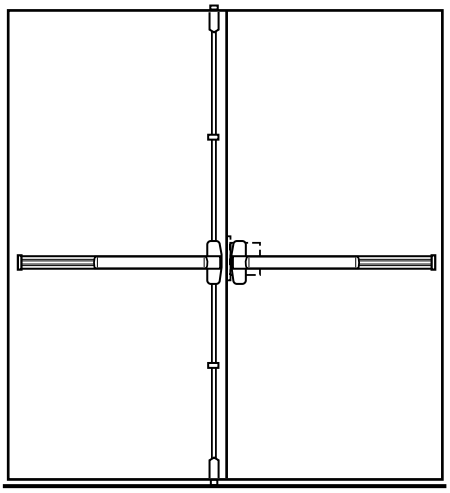
For Standard Trim Functions

Door Handing

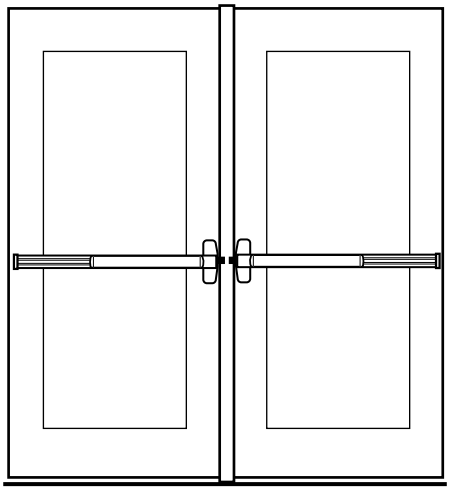


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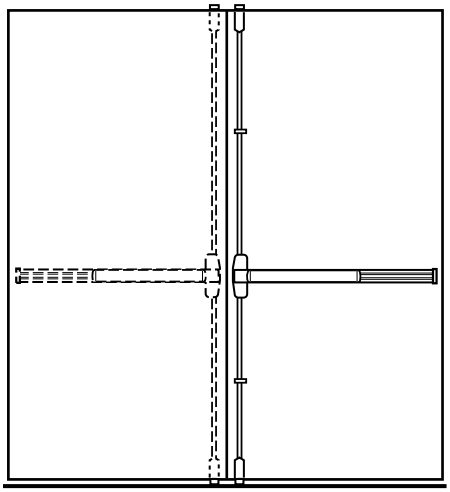
Popular Double Door Applications



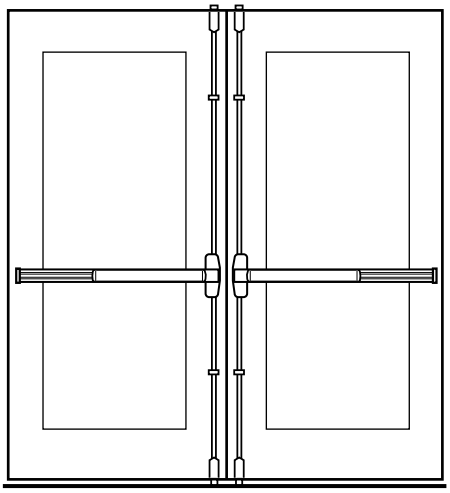
Mortise lock and surface mounted or Concealed Vertical rod device combination—same direction



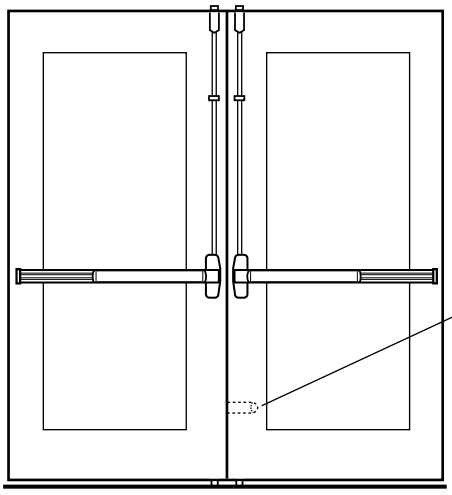
Two rim devices with mullion—same direction



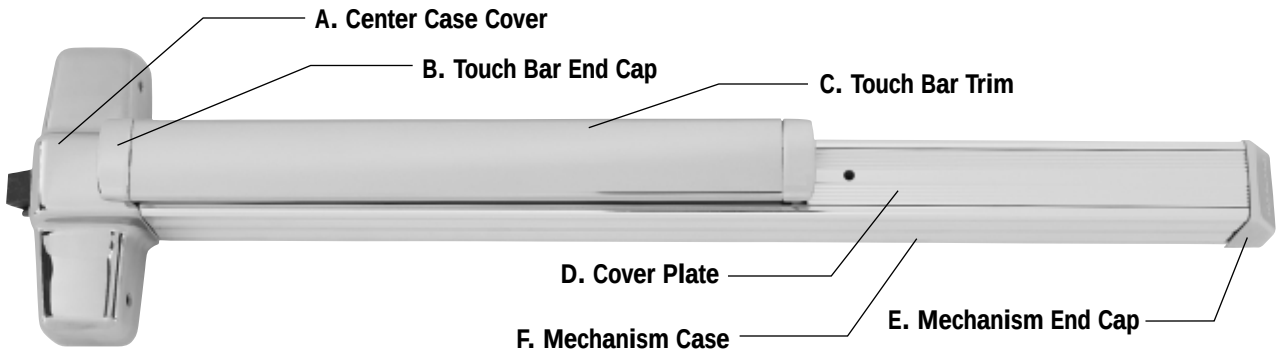
Two vertical rods—double egress



Two surface mounted vertical rod devices—same direction
(do not use with overlapping astragal)



Two FEH vertical rods with auxiliary fire latch—LBR option



Finishes

Color	US Number	BHMA Number	A, B, E	C	D & F
Brass, Polished	US3	605	Plated	Brass, Polished US3, 605	Buffed Anodized
Brass, Satin	US4	606	Plated	Brass, Dull US4, 606	Anodized
Bronze, Satin	US10	612	Plated/Anodized	Bronze, Dull US10, 612	Anodized
Chrome, Polished	US26	625	Plated	Stainless Steel, Polished US32, 629	Buffed Anodized
Chrome, Satin	US26D	626	Plated	Stainless Steel, Satin US32D, 630	Anodized
Stainless Steel, Satin*	US32D	630	Stainless Steel	Stainless Steel, Satin US32D, 630	Anodized
Aluminum, Anodized	US28	628	Powder Coat	Stainless Steel, Satin US32D, 630	Anodized
Duranodic Dark Bronze	313AN	710	Powder Coat	Brown Wrinkle Powder Coat	Anodized
Black Anodized	315AN	–	Powder Coat	Black Wrinkle Powder Coat	Anodized

Special Finishes

Color	US Number	BHMA Number	A, B, E	C	D & F
Bronze, Oil-Rubbed Satin	US10B	613	Plated	Bronze, US10B, 613	Anodized
Powder Coat	RAL #	–	Powder Coat	Stainless Steel, Satin US32D, 630	Powder Coat
Bronze, Polished	US9	611	Plated	Bronze, Polished US9, 611	Buffed Anodized
Nickel, Satin	US15	619	Plated	Stainless Steel, Satin US32D	Anodized

Touch Bar Trim Options:

Knurled

Embossed “Push”

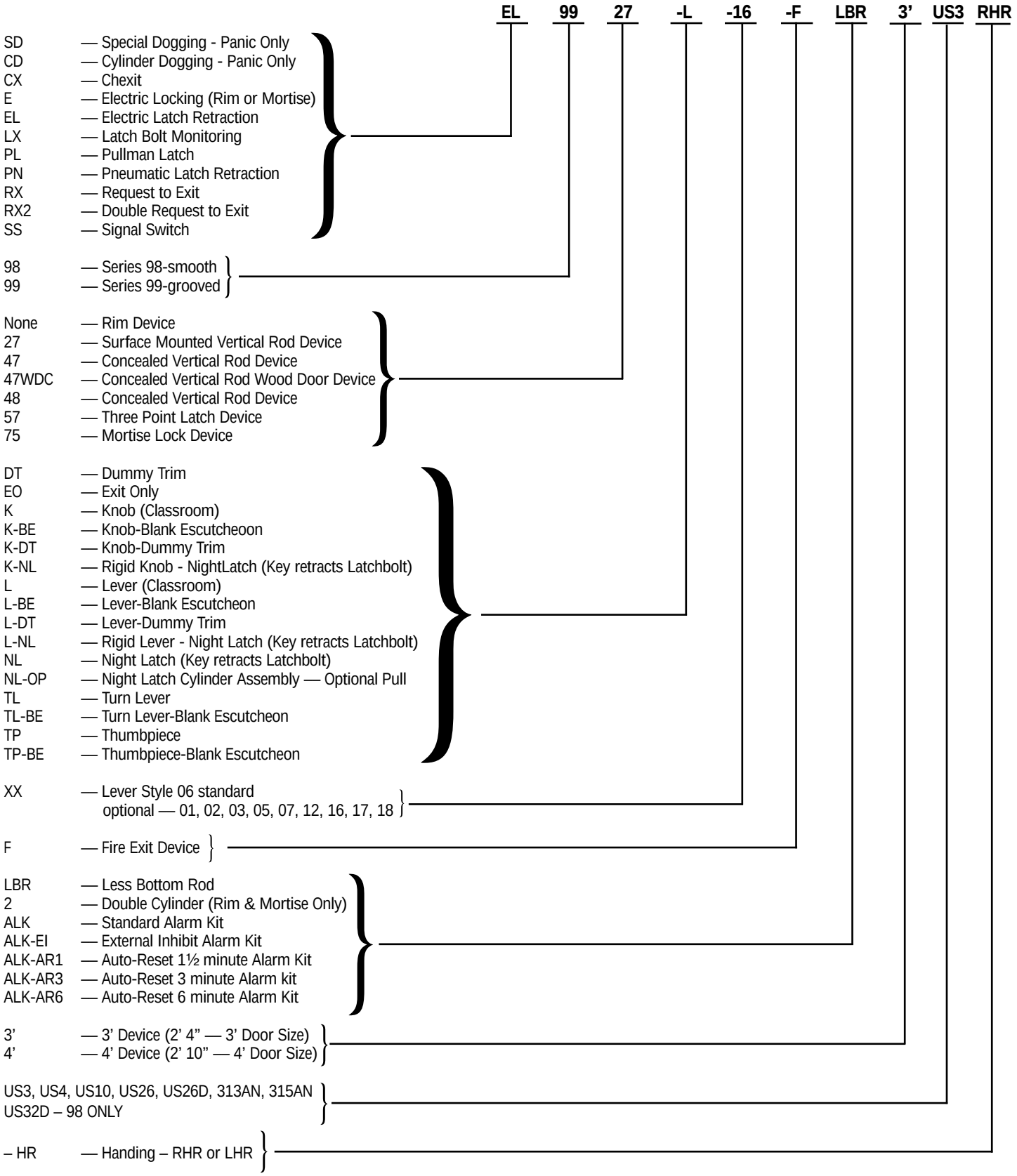
Braille, US32D Only, Embossed “Caution Stairwell”

SS, US32D Only, Red silk screen lettered “EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM.”

**US32D Finish—available on Series 98 only*

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Nomenclature – How To Order



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VON DUPRIN®

98/99™ Series Exit Devices

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(905) 278-1413 FAX
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IR Security & Safety
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Northpoint, Hong Kong
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+(852) 2565-1409 FAX

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P.O. Box 19-347
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+64 (0) 9-829-0552 FAX
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AUXILIARY HARDWARE & GENERAL INFORMATION



Security & Safety
Proven Source. Proven Solutions.™

Finishes*



Color	US Number	BHMA Number
Chromium, Polished	US26	625
Anodized, Aluminum	US28	628
Chromium, Dull	US26D	626
Brass, Polished	US3	605
Brass, Dull	US4	606
Bronze, Dull	US10	612
Anodized Duranodic (Dark Bronze)	313AN	710
Anodized Black	315AN	—

*** NOTE:** Durable powder coated finishes available at specific special request. PLEASE CONTACT FACTORY.

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Symbols

Indicates Fire Rated Application

About Von Duprin

The disastrous Iroquois Theater fire in Chicago happened in 1903. Carl Prinzler, Manager of the Vonnegut Hardware Company Builders Hardware Department, was scheduled to be at the matinee, featuring Eddie Foy, but other matters prevailed and he was spared. Five hundred ninety people died, mainly because the theater doors opened inward.

Prinzler spent the next five years working with Henry Dupont, an architectural engineer, developing hardware to preclude a similar horror. Together they fashioned a lever that kept doors locked on the outside, yet unlocked from the inside. The pivotal element was the crossbar which opened the door outward once any part of the body touched it.

That was 1908. And the initial products were rather crude and ugly. Since that time, Von Duprin has been instrumental in transforming fire and panic exit hardware into sleek, attractive products available in a wide range of styles, functions and finishes.

Thorough and continuous research by Von Duprin has resulted in a parade of improvements and enhancements that has earned it the reputation of being the "R & D Department for the entire industry."

- Von Duprin was first to use drop forgings.
- Von Duprin was first with a special threshold, the Latch-Track.
- Von Duprin developed the first reversible exit device, the 88 rim type device.
- Von Duprin introduced the first extruded aluminum mullion.
- Von Duprin was first to market a concealed vertical rod device for metal doors.
- Von Duprin was first to market a concealed vertical rod device for wood doors.
- Von Duprin was the first to have a line of narrow stile devices, the type NC.
- Von Duprin produced the first stainless steel line of devices, the type 66 series.
- Von Duprin was the first with a line of pushpad devices, the type 33 series.
- Von Duprin was the first with electric locking and unlocking, the type E device.
- Von Duprin was the first with self contained delayed exit, CHEXIT®

In addition, during the 1920's Von Duprin developed the type Q device, which was approved by Underwriter's Laboratories, Inc., for three hour fire rated doors. Subsequently, Von Duprin has successfully tested the industry's most complete line of Fire Exit Hardware.

Along with these impressive developments, we are proud of our record of manufacturing quality products that give years and years of solid dependable service with minimum maintenance. While it is satisfying to reflect on these accomplishments, it is even more significant that Von Duprin has the purpose and the spirit to continue to lead an important industry in providing "THE SAFE WAY OUT!"

How the name "VON DUPRIN" originated: VON (Vonnegut Hardware Company), DU (DuPont), the architectural engineer, who helped PRIN (Prinzler) develop the first Von Duprin exit device.

UL Listings

Most Von Duprin exit devices are UL Listed for Panic Hardware or Fire Exit Hardware, and are tested in accordance to ANSI A156.3, 1994, Grade 1.

UL Listed Panic Hardware

To be UL listed a device must pass rigorous tests to prove it is mechanically sound and reliable. One test puts the device through 100,000 controlled open and close cycles. In another, the activating mechanism is required to operate with 50 pounds of pressure or less when 250 pounds of pressure is applied to the door in the direction of the swing.

Fire Exit Hardware

To carry the UL Label for Fire Exit Hardware, a device first must meet the Accident Hazard requirements. Secondly, the device must pass the burn test to prove that it can hold fire doors closed for up to a three hour period in temperatures over 1900°F. Immediately after burning, a fire hose with approximately 45 lbs. PSI pressure at the nozzle puts stress on the opening as a final test of the hardware's ability to hold the doors closed.

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ANSI Functions for Exit Hardware

A variety of ANSI functions are offered with each series. Each device section of the catalog contains a chart showing the ANSI types and functions available in the series.

01 — Exit Only, no trim

02 — Entrance by trim when actuating bar is locked down.

03 — Entrance by trim when latch bolt is retracted by key. Key removable only when locked.

04 — Entrance by trim when latch bolt is retracted by key or set in a retracted position by key.

05 — Entrance by thumbpiece. Key locks or unlocks thumbpiece.

06 — Entrance by thumbpiece only when released by key. Key removable only when locked.

07 — Entrance by thumbpiece. Inside key locks or unlocks thumbpiece. Outside key retracts latch.

08 — Entrance by knob or lever. Key locks or unlocks knob.

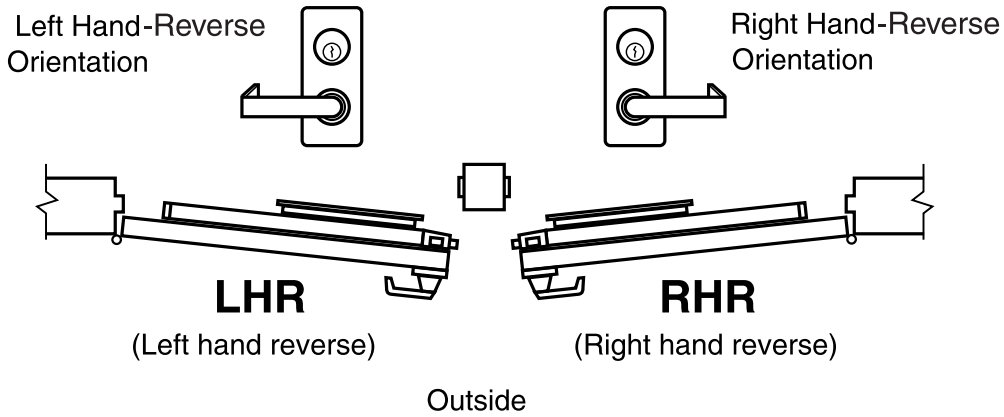
09 — Entrance by knob or lever only when released by key. Key removable only when locked.

10 — Entrance by knob or lever. Inside key locks or unlocks knob. Outside key retracts latch.

11 — Entrance by control turn piece. Key locks or unlocks control.

12 — Entrance by control turn piece only released by turning key. Key removable only when locked.

Door Handing



Abbreviations

-2 — Double Cylinder
-2 — Two Zone Controller
AC — Access Control Function
AFL — Auxiliary Fire Latch
AL — Alarm Function
AL — Aluminum
ALK — Alarm kit
AN — Anodized
AO — Auto Operator Function
ATMS — All template machine screws
BB — Battery Back-up
BE — Blank Escutcheon
BRS — Brass
BRZ — Bronze
CBMS — Crossbar Monitor Switch
CD — Cylinder Dog
CK — Conversion Kit
CV — Concealed Vertical Rod
CX — Chexit
CYL — Cylinder
DE — Delayed Egress
DR — Door
DS — Dual Signal Switch
DT — Dummy Trim
E — Electric Locking/Unlocking
EB — Entry Buzzer
EL — Electric Latch Retraction
EO — Exit Only
EPT — Electric Power Transfer
ES — Electric Strike
F — Fire Exit Hardware
FA — Fire Alarm
FEH — Fire Exit Hardware
FPH — Flat Phillips Head
FR — Frame
FS — Fail Safe
FSE — Fail Secure
GBK — Glass Bead Kit
HD — Hex Dogging
HH — Hurricane
HM — Hollow Metal
HS — High Security
INS — Insulclad
K — Knob
KAL — Kalamein
KN — Knurled
KR — Keyed Removable
L — Lever
LBR — Less Bottom Rod
LC — Low Current
LD — Less Dogging
LG — Latch Guard
LHR — Left Hand Reverse Bevel
LR — Latch Retractor
LX — Latchbolt Monitor Switch
M — Mortise
MS — Machine Screws
NL — Night Latch
NL-OP — Night Latch (Optional Pull)
OPH — Oval Phillips Head
PL — Pullman Latch
PN — Pneumatic Latch Retraction
R — Rim
RCM — Remote Chexit Module
RG — Rod Guard
RHR — Right Hand Reverse Bevel
RX — Request to Exit Switch
RX-2 — Request to Exit - Double Switch
SD — Special Center Case Dogging
SEC — Security Screws
SHM — Stock Hollow Metal
SI — Security/Safety Interlock Function
SNB — Sex Nuts and Bolts
SS — Stainless Steel
SS — Signal Switch
SSKD — Stock Size, Knocked Down
STMS — Strike Template Machine Screws
SV — Surface Vertical Rod
TD — Time Delay
TL — Turn Lever Control
TP — Thumbpiece Action
WD — Wood
WDC — Wood Door Concealed
WS — Wood Screws

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Nomenclature – How To Order

EL	99	47	WDC	TP	-F	RHR	CYL

EL

- CBMS — Crossbar Monitor Switch
- CD — Cylinder Dogging - Panic Only
- CX — Chexit
- CXR — Chexit – Remote Chexit Module
- E — Electric Locking (Rim or Mortise)
- EL — Electric Latch Retraction
- ES — Electric Strike
- HD-EL — Hex Dogging/Electric Latch Retraction
- HS — High Security
- HH — Hurricane
- LD — Less Dogging
- LX — Latch Bolt Monitoring
- PL — Pullman Latch
- PN — Pneumatic Latch Retraction
- RX — Request to Exit
- RX2 — Request to Exit – Double Switch
- SD — Special Center Case Dogging
- SS — Signal Switch

99

- 22 — Series 22
- 33A — Series 33A
- 35A — Series 35A
- 55 — Series 55
- 88 — Series 88
- 94 — Series 94
- 95 — Series 95
- 98 — Series 98
- 99 — Series 99

47

- None — Rim Device
- 27 — Surface Mounted Vertical Rod Device
- 47 — Concealed Vertical Rod Device
- 48 — Concealed Vertical Rod Device
- 57 — Three Point Latch Device
- 75 — Mortise Lock Device

WDC

- WDC — Wood Concealed Door

TP

- DT — Dummy Trim
- EO — Exit Only
- K — Knob (Classroom)
- L — Lever (Classroom)
- NL — Night Latch (Key retracts Latchbolt)
- NL-OP — Night Latch Cylinder Assembly — Optional Pull
- TL — Turn Lever
- TP — Thumbpiece
- BE — Blank Escutcheon

-F

- F — Fire Exit Device

RHR

- RHR — Right Hand Reverse Bevel
- LHR — Left Hand Reverse Bevel

CYL

- 2 — Double Cylinder (Rim & Mortise Only)
- ALK — Alarm Kit
- AFL — Auxiliary Fire Latch
- CYL — Cylinder
- LBR — Less Bottom Rod
- FS — Fail Safe
- FSE — Fail Secure
- GBK — Glass Bead Kit
- INS — Insulclad
- RG — Rod Guard
- SNB — Sex Bolts
- SEC — Security Screws
- SLM — Special Manufacturer for high density blocking

Consult individual device catalogs for option and accessory compatibility.

Sex Bolts

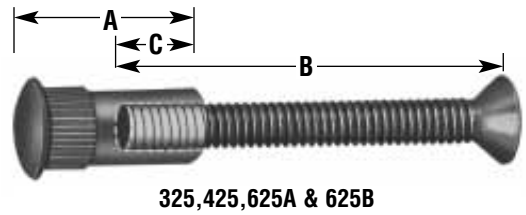
Sex Bolts when ordered with devices may be furnished with screw lengths different than shown in Column B. On page 7, Column B indicates popular sizes. Sex Bolts ordered separately are not furnished with screws. If screws are required refer to chart on page 7 and order screws by description as a separate item. Other screw lengths may be used based on minimum and maximum allowable thread engagement, shown in column "C." Quantity required — refer to device section, quantities differ depending on outside trim.

425 sex bolts are required for 22/88/98/99 series fire rated devices when used on wood door applications. When wood doors are specified for these devices, sex bolts will be added to the device application unless SLM blocking package is specified.

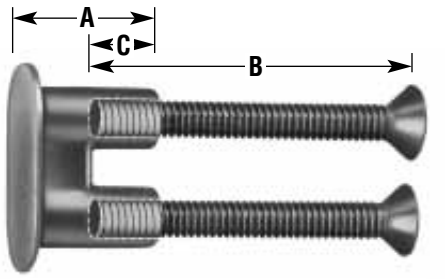
825 sex bolts are required with 98-F/99-F rim devices on wood door applications using EO, NL, TP, K and L outside trims. Two 825 sex bolts will be added to the device application unless SLM blocking package is specified.

To Order, Specify:

1. Model number
2. Quantity (2 per package)
3. Finish
4. Door thickness other than 1¾´´ *(44mm).*



325,425,625A & 625B



525



325



425



825



625A



625B

Refer to page 7 for A, B and C lengths

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Rim, Mortise and Concealed Vertical Rod

Device Type	Door Thickness	Center Case				Hinge Case			
		Sex Bolt		B Screw	C Thread Engagement Min. – Max.	Sex Bolt		B Screw	C Thread Engagement Min. – Max.
		No.	A			No.	A		
22	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″
33A, 3347A, 3347A-F	1¾″ *(44mm)*	325	1⁹⁄₃₂″	¼-20 x 1″ FPHMS	⅜″ – ¹¹⁄₁₆″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″
35A, 3547A, 3547A-F	2¼″ *(57mm)*	325	1⁹⁄₃₂″	¼-20 x 1½″ FPHMS	⅜″ – ¹¹⁄₁₆″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″
55	1¾″ *(44mm)*	625A	2⁵⁄₁₆″	12-24 x ¾″ OPHMS	¹¹⁄₃₂″ – ¹³⁄₁₆″	625A	2⁵⁄₁₆″	12-24 x ¾″ OPHMS	¹¹⁄₃₂″ – ¹³⁄₁₆″
	2¼″ *(57mm)*	625B	2¹³⁄₁₆″	12-24 x ¾″ OPHMS	¹¹⁄₃₂″ – 1″	625B	2¹³⁄₁₆″	12-24 x 1¼″ OPHMS	¹¹⁄₃₂″ – 1″
5575, 5575-F 5547, 5547-F	1¾″ *(44mm)*	—	—	—	—	625A	2⁵⁄₁₆″	12-24 x ¾″ OPHMS	¹¹⁄₃₂″ – ¹³⁄₁₆″
	2¼″ *(57mm)*	—	—	—	—	625B	2¹³⁄₁₆″	12-24 x 1¼″ OPHMS	¹¹⁄₃₂″ – 1″
88, 88-F, 8875, 8875-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″
8847-F	1¾″ *(44mm)*	—	—	—	—	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	—	—	—	—	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″
98, 9875, 9875-F, 9847, 9847-F, 99, 9975, 9975-F, 9947, 9947-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″
98-F, 99-F*	1¾″ *(44mm)*	425 825A*	1⁹⁄₁₆″ 1¹³⁄₁₆″	10-24 x 1″ PPHMS 10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″ ⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425 825B*	1⁹⁄₁₆″ 2⁵⁄₁₆″	10-24 x 1½″ PPHMS 10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″ ⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″

** For use with outside trims, see page 6 for details*

Surface Vertical Rod

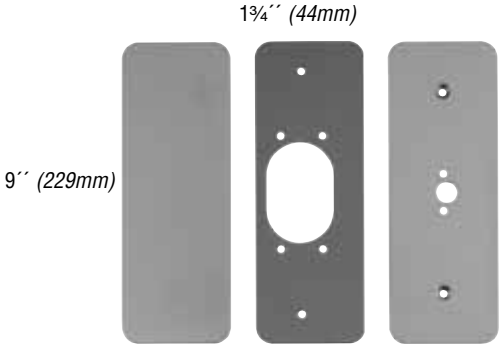
Device Type	Door Thickness	Center Case				Hinge Case				Top & Bottom Latch Case			
		Sex Bolt		B Screw	C Thread Engagement Min. – Max.	Sex Bolt		B Screw	C Thread Engagement Min. – Max.	Sex Bolt		B Screw	C Thread Engagement Min. – Max.
		No.	A			No.	A			No.	A		
2227, 2227-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″	325	1⁹⁄₃₂″	¼ -20 x ¾″ UFPHMS	⅜″ – ¹¹⁄₁₆″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″	325	1⁹⁄₃₂″	¼ -20 x 1¼″ UFPHMS	⅜″ – ¹¹⁄₁₆″
3327A 3527A	1¾″ *(44mm)*	325	1⁹⁄₃₂″	¼-20 x 1″ FPHMS	⅜″ – ¹¹⁄₁₆″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″	325 325	1⁹⁄₃₂″	¼ -20 x ¾″ UFPHMS	⅜″ – ¹¹⁄₁₆″
	2¼″ *(57mm)*	325	1⁹⁄₃₂″	¼-20 x 1½″ FPHMS	⅜″ – ¹¹⁄₁₆″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″	325 325	1⁹⁄₃₂″	¼ -20 x 1¼″ UFPHMS	⅜″ – ¹¹⁄₁₆″
8827, 8827-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″
9827, 9827-F 9857 9857-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″	325	1⁹⁄₃₂″	¼ -20 x ¾″ UFPHMS	⅜″ – ¹¹⁄₁₆″
9927, 9927-F 9957 9957-F	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″	325	1⁹⁄₃₂″	¼ -20 x 1¼ ″ UFPHMS	⅜″ – ¹¹⁄₁₆″

(FPHMS — Flat Phillips Head Machine Screw; OPHMS — Oval Phillips Head Machine Screw; PPHMS — Pan Phillips Head Machine Screw UFPHMS — Undercut Flat Phillips Head Machine Screw)

Cover Plates

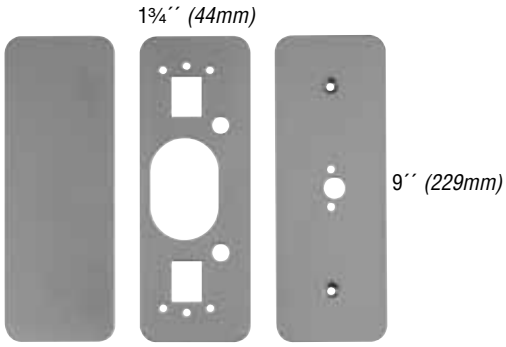
229 Kit
(For 22 Rim Device)

Kit contains inside and outside plates for hinge stile cutouts, an inside plate for the the lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations. Specify finish.



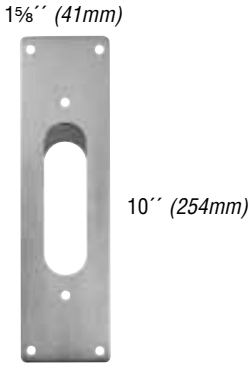
997 Kit
(For 98/99 Rim Device)

Kit contains inside and outside plates for hinge stile cutouts, an inside plate for lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations. Specify finish.



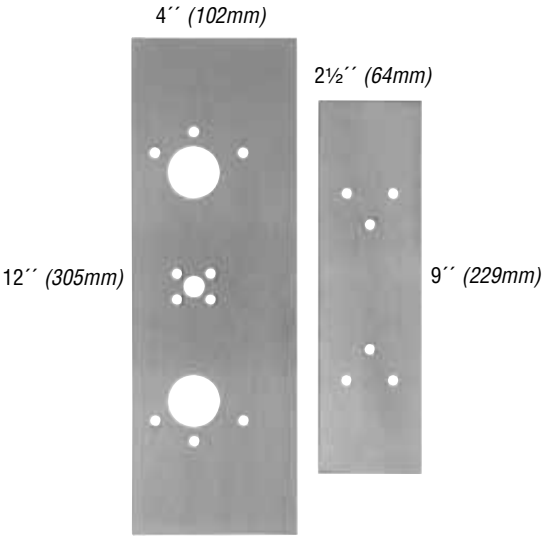
589 Kit
(For 5575 Device)

Kit contains plates for the lock stile and hinge side of the device, and necessary screws. Plates are designed to mount to device on wood door applications. The mortise lock cut-out interferes with device mounting. Specify finish and door width other than 1¾´´ *(44mm)*.



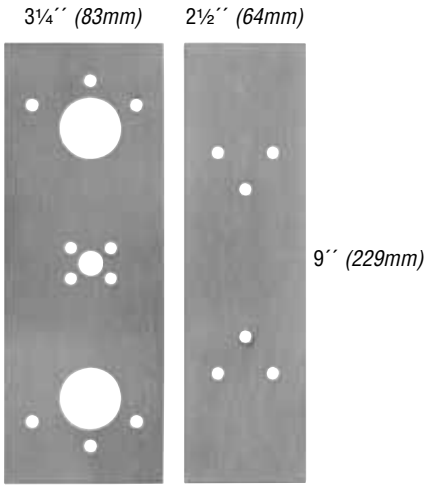
882 Kit
(For 88 Rim Device)

For use to cover mortise lock or discontinued device cut-outs. Specify finish.



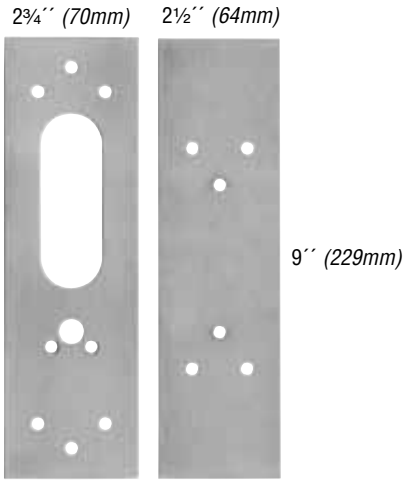
887 Kit
(For 88 Rim/8827 Devices)

For use with rim/vertical device combinations on pairs of doors with ANSI cut-out. The 88 rim device backset is increased and exposes the 161 cutout when used with an 8827. Specify finish



888 Kit
(For 8875 or 8827 Devices)

For use on doors with ANSI 161 cutouts. Device center case will not cover stock cutout. Specify finish.



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Cover Plates

889 Kit
(For 373L Control)

Required when 373L controls are used with sex bolts. Four studs on cover plate allow through bolting to the device center case. **Note:** Sex bolts must be used on wood or composite fire doors. Specify device type R, M, or V and finish.

3´´ *(77mm)*

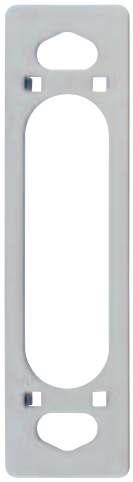


11´´ *(267mm)*

#10 WDA Kit
(For 370 Series Controls)

For wood door applications, used to cover up door preparations for control, also prevents the control from boring into the wood door. Finished to match control.

2⅛´´ *(29mm)*



8´´ *(204mm)*

33A WDA Kit
(For 360 Series Controls)

For wood door applications to cover up door preparations for control, also prevents the control from boring into the wood door. Finished to match control.

2⅛´´ *(29mm)*



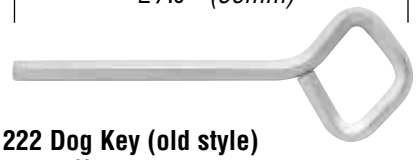
8´´ *(204mm)*

998 Kit
(For 994L Trim)

For use with 994 lever trim to cover existing 992 lever trim cut-out. Specify finish

Dog Keys

2³⁄₁₆´´ *(56mm)*



222 Dog Key (old style)
⁷⁄₃₂´´ *(6mm)* hex

2¾´´ *(70mm)*

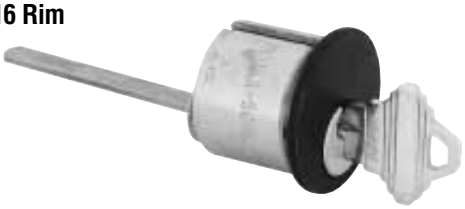


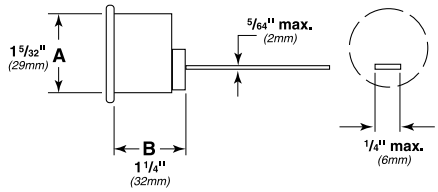
227 Dog Key (standard)
⁵⁄₃₂´´ *(4mm)* hex

Cylinders

Cylinders are not furnished with device or trim (unless noted) and must be specified when ordering. Only available with Schlage "C" Keyway. Specify finish when ordering separately. Custom keying is not available.

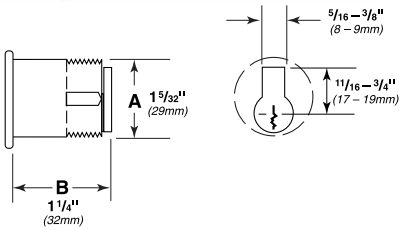
3216 Rim





3215 Mortise (Schlage B502-191 cam)





3218 Dummy



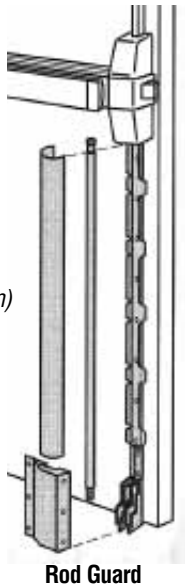
Glass Bead Kit – GBK

Glass bead conversion kits are used on doors with glass beads. Each kit consists of ¼" *(6mm)* shim sets. GBK for Surface Vertical Rod ships with ⅛" *(3mm)* shims for rod guides. Shims are not required for top and bottom latches

To Order, Specify:

1. Device Model. Example: 99GBK
2. Device type (Rim, Mortise, Surface Vertical Rod, Concealed Vertical Rod)
3. Wood Door, when used with Concealed Vertical Rod
4. Specify if using with 499F Strike
5. Finish

Vertical Rod and Latch Guard — RG-27



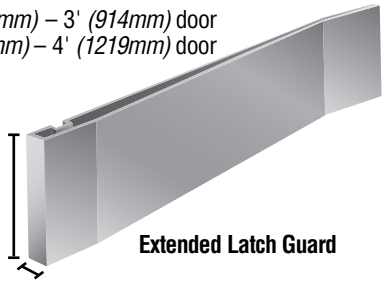
Rod Guard

Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. If bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.

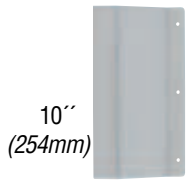
In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easily with the bumpers of a wheelchair. The standard latch guard features a 45° ramp and a continuous ramp on full width or extended latch guard.

All stainless steel construction in US32D finish. Latch guards can cover latches as large as 1¼"W x 10"H x 1⅞" *(32mm x 254mm x 48mm)* projection. For use on Hollow Metal Fire-Rated Doors.

33⅛" *(841mm)* – 3' *(914mm)* door
45⅛" *(1146mm)* – 4' *(1219mm)* door



Extended Latch Guard



4⅜"
(111mm)

Latch Guard

Models

RGO	— Rod guard only (Projection 1 3⁄16" *(30mm)*).
RG-27	— Rod and latch guard.
RG-27-3	— 3' *(914mm)* Rod Guard and Extended Latch Guard.
RG-27-4	— 4' *(1219mm)* Rod Guard and Extended Latch Guard.
LGO	— Latch guard only.
LGO-3	— 3' *(914mm)* Extended latch guard only.
LGO-4	— 4' *(1219mm)* Extended latch guard only.

Note: Not for use on wood fire doors

To Order, Specify:

1. Model number.
2. Handing (except on RGO).
3. Door material if other than Hollow Metal.
4. Optional sex bolt mounting available.

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Series 237L Two Point Latch



Series 237L Two Point Latch Assembly is ideal for use on standard hollow metal or fire doors, up to 4´0´´x8´0´´ *(1219mm x 2438mm)*. UL listed for three hour "A" label applications. This product can not be used on doors requiring panic or fire exit hardware. It can be used on the inactive leaf of a pair with a lockset or both leaves of a pair.

The series 237 features a top soffit latch and ratchet release for long service life and dependability.

Furnished standard with one lever control assembly with mounting plate for the push side. This lever operation is always unlocked (L-BE). A second control lever can be ordered separately for the pull side, either model 378L-BE (always unlocked) or model 378L (with cylinder locking). Cylinders not included.

Lever operation meets all ADA requirements.

To Order, Specify:

1. Model number 237L-BE.
2. Optional second control, 378L or 378L-BE.
3. Handing (see charts below).
4. Finish.

Optional lever styles are available.



#03



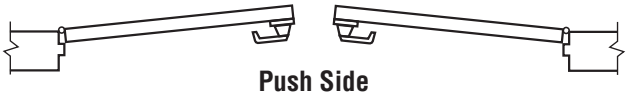
#06
(standard)



#17

HANDING – How To Order

Outswing Door Application



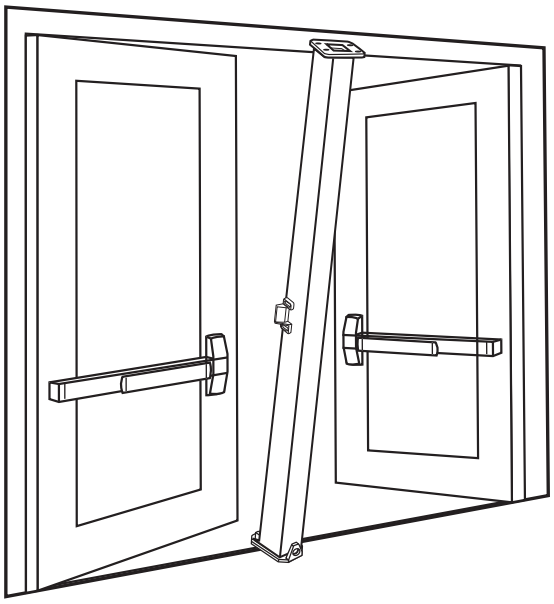
Push Side

237L-BE – RHR

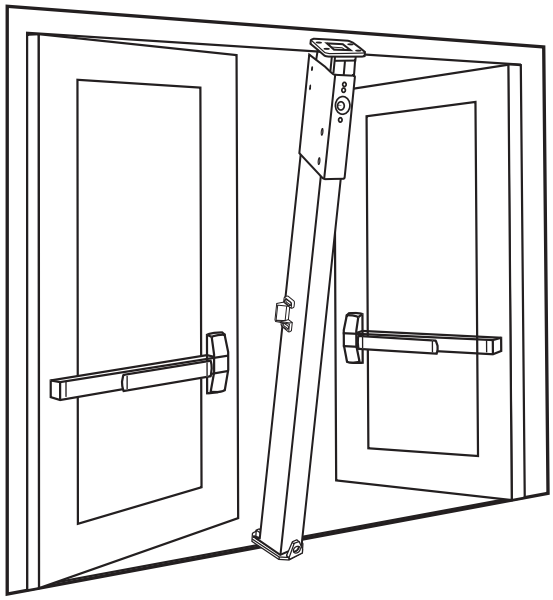
237L-BE – LHR

NOTE: For Inswing Door Applications that require locking on the Push Side, consult factory. Outswing door will be assumed if not specified.

Removable Mullions



Keyed Removable Steel Mullions



Mullions

Removable Steel Mullions Mullions provide single door performance in double door openings with rim devices. Mullions are easily removed by loosening bottom set screw and removing top fitting cover. The top mullion fitting is attached to the frame and is concealed by the fitting cover.

Steel mullions are 2˝ *(51mm)* wide and 3˝ *(76mm)* deep, with a wall thickness of ⅛˝ *(3mm)*.

Mullions are shipped with mounting screws and prepared for strikes. Strikes are not included except where indicated.

Steel mullions are available in SP28 and SP313 finishes. Consult factory for other powder coat finish options.

KR – Keyed Removable Steel Mullions makes removal faster and easier by a single operation of the mortise cylinder. Once mullion is removed, large equipment or furniture can freely pass through the opening. The unit will self lock when re-installed, without use of the cylinder key. Uses a 1¼˝ mortise cylinder with a straight cam (Schlage cam reference B502-191). Cylinders are sold separately. Prefix mullion model with “KR”.

Removeable Aluminum Mullions are 1$\frac{1}{16}$˝ *(27mm)* wide on face closest to the door and 2⅜˝ *(60mm)* at the widest point. The depth is 3⅛˝ *(79mm)* with a wall thickness of ⅛˝ *(3mm)*.

Aluminum mullions are available in US4, US10, US28, 313AN and 315AN finishes. Consult factory for other powder coat finish options.

Stock Hollow Metal Applications for devices mounted to cover ANSI 161 cutouts are higher than the standard mullion strike location. Consult the factory for special strike preparation or order a blank mullion. See below.

Blank Mullions are furnished without strike preparation. They are used to mount devices at a strike height different from the standard mullion preparation.

To Order, specify

1. For keyed Removable option on steel mullions, prefix model number with “KR”
2. Model number.
3. Height of opening
4. Finish
5. Handing if required.
6. Centerline deviation (refer to device template for standard centerline).
7. Strikes, when required, should be ordered with device.
8. For keyed Removable option on steel mullions, prefix model number with “KR”

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Steel Mullions

1654 Prepared for two 1606 strikes. **If 1606 strikes are not specified on the order, two per mullion will be added. Additional charges apply.**

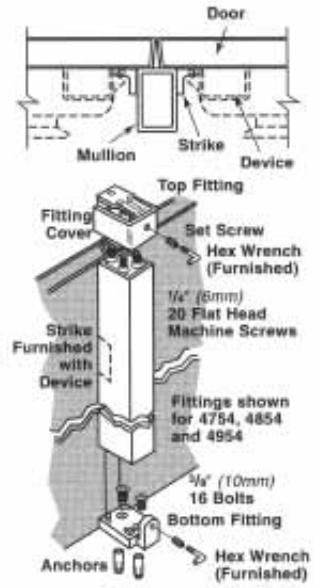
4954 Prepared for 264 or 299 strikes. For use with all Von Duprin Panic rim devices. **Note: specify strike choice with device.**

9954 Prepared for and must be used with two 268 strikes (88-F device), or two 499F (22-F, 98-F, 99F devices). UL fire labeled mullion for up to 3 hour opening using Von Duprin fire exit rim devices. This mullion is not easily removed due to special fittings.

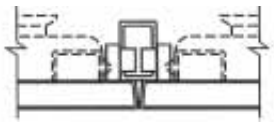
22-F and 88-F devices are rated up to 8´ x 8' *(2438mm x 2438mm).*

98-F and 99-F devices are rated up to 10´0´´ *(3048mm).*

Note: If 268 or 499F strikes are not specified on the order, two per mullion will be added. Additional charges apply.

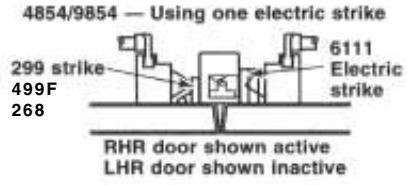


4754 Prepared for two 4263 monitor strikes.



4854 Prepared for one 299 and one 6111 electric strike. Indicate handing for electric strike.

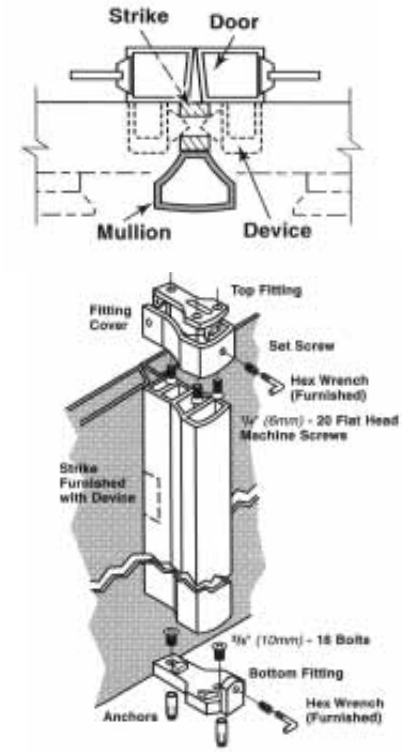
9854 Prepared for one 268 or 499F strike and one 6111 electric strike. Indicate handing for electric strike. UL fire labelled mullion for up to 3 hour openings up to 8' x 8' (*2438mm x 2438mm)* using Von Duprin Fire Exit Rim Devices



Aluminum Mullions

5654 Prepared for two 264 or 299 strikes with weatherstripping. Includes one set of 154 stabilizers.

5754 Prepared and furnished with one 1408 double door strike. Includes one 154 stabilizer set.
Note: specify device "less strike".



Sizes for Mullions

1654, 4954, 4754, 4854, 5654, 5754	9854, 9954
7´ 2´´ *(2184mm)*	7´ 3´´ *(2210mm)*
*8´ 2´´ *(2489mm)*	8´ 3´´ *(2475mm)*
*10´ 2´´ *(3099mm)*	10´ 3´´ *(3124mm)*

KR1654, KR4954, KR4754, KR4854	KR9854**, KR9954***
7´ 6´´ *(2286mm)*	7´ 5´´ *(2261mm)*
8´ 6´´ *(2591mm)*	*8´ 5´´ *(2565mm)*
10´ 6´´ *(3200mm)*	*10´ 5´´ *(3175mm)*

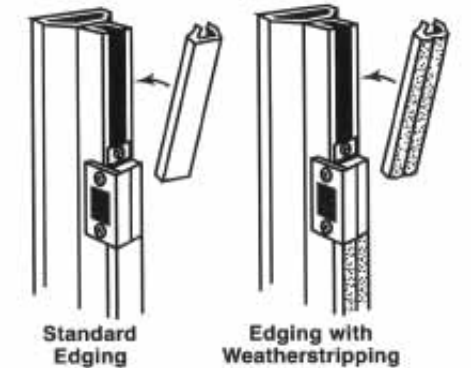
* Only qualifying applications will be provided with UL Label.

** Fire rated same as 9854

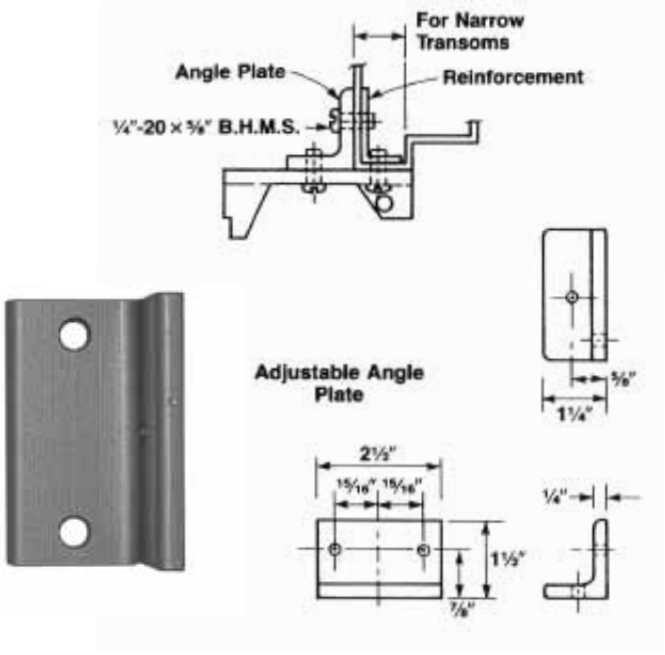
*** Fire rated same as 9954

Weatherstripping

Weatherstripping retards cold air from blowing between doors and mullion. It also serves as a silencer when the door is closed against the mullion. The silicone treated weatherstrip pile is bonded to a polypropylene backing. A slide-in molding houses the weatherstripping, covers mounting screws of the strike and extends to both the top and bottom of the mullion. Available on Aluminum Mullions only.



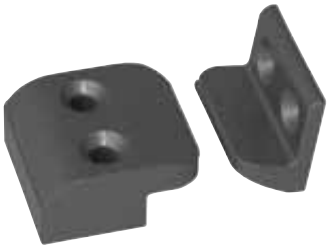
Angle Plate is used with narrow transom frames. The plate attaches to the transom extending the surface area needed to mount the mullion. Must be ordered separately. Specify finish.

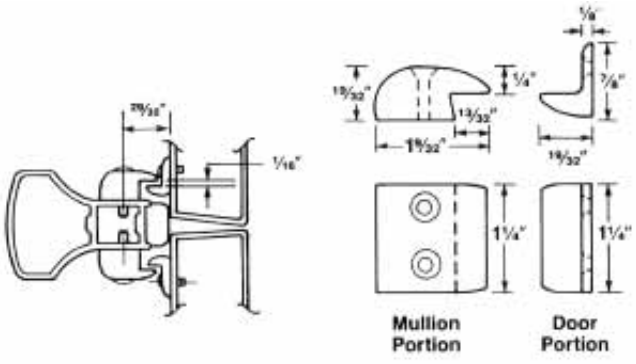


154 Stabilizer is a two-piece interlocking set. One piece mounts on the mullion with the top mounting hole 5³⁄₁₆´´ *(148mm)* below the centerline of the strike; the other piece mounts on the door. Shims are provided to adjust for misalignment between the door and mullion.

The set maintains integrity between the door and mullion to prevent vandalism and to ensure contact between the device and strike as the doors expand and contract with temperature changes.

Furnished standard on aluminum mullions; optional for steel and all blank steel mullions.





MT54 Storage Kit is a set of floor and wall brackets that provide convenient storage of the keyed removable mullion when removed from the opening.

To Order, specify

1. Model MT54.
2. Finish SP28, SP313, or SPBLK

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DOOR CONTROL AND SECURITY HARDWARE



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Electric Strikes provide remote release of a locked door. They allow the door to be opened without retracting the latchbolt. This occurs by the releasing of the electric strike lip (sometimes called keeper or gate). When the door closes the beveled latchbolt rides over the lip and falls into the electric strike pocket.

VON DUPRIN SERIES 6000 ELECTRIC STRIKES

Von Duprin is the leading manufacturer of premium, heavy duty electric strikes. Known for their reliability, durability and security 6000 Series strikes feature all stainless steel construction, are non-handed and available in 12V or 24V, DC or AC. Strikes are furnished fail secure (FSE) standard, with fail safe (FS) optional. Strike box is adjustable to compensate for any misalignment of the door or frame. Two-piece plug connectors are furnished for ease of installation and for removal during strike servicing.

To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on page 13. When using a lockset not listed or when retrofitting a strike to an existing application, consult Von Duprin for application assistance.

OPTIONS

AC Operation
SO12 and SO24 are rectifier kits to convert AC voltage to operate the DC solenoids. These kits are field installable and plug in-line to solenoid.

DS and DS-LC — Dual Switch Monitoring (Factory Installed Only)
Dual switch monitoring option has two SPDT contacts, one switch monitors the tripper which is depressed when the latchbolt is inserted into the strike pocket. The second switch monitors the condition of the strike lip, open or closed and locked.

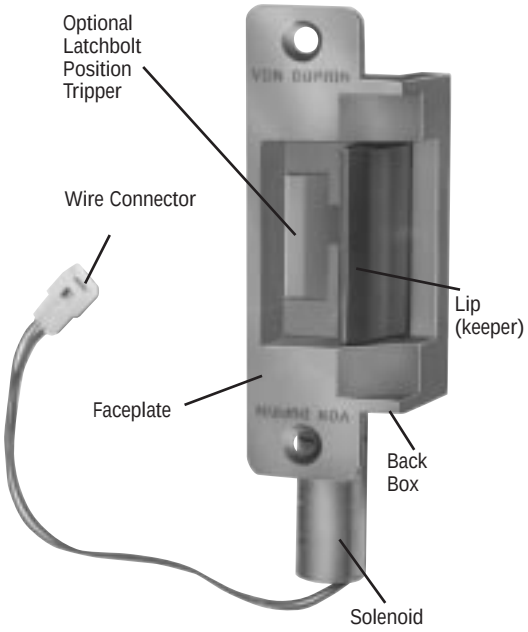
Two switch options are available — DS and DS-LC.
DS is standard, rated 24V, operating range from 2 ampere to 50 milliampere.

DS-LC low volt gold contact switches for use on applications associated with computer control and monitoring, rated 24V, operating range 50 milliampere or below.

Fail Secure — FSE
FSE — FAIL-SECURE electric strikes require power to be applied to unlock the strike lip. On loss of power, the strike is locked. Field convertible.

Fail Safe — FS
FS — FAIL-SAFE electric strikes require power to be applied to lock the strike lip. On loss of power, the strike is unlocked. Building codes prohibit the use of fail-safe strikes on labeled openings. Field convertible.

Entry Buzzer — EB
EB — Entry buzzer is available for use with fail-secure strikes. Installed in the frame and in parallel with the circuit, the buzzer will sound when the strike is unlocked.



UL LISTED
UL Listed Burglary-Resistant and Electric Strike for fire doors and frames. A label for single doors and B label for double doors. Strikes are tested in accordance with BHMA Standard 501 and ANSI 156.5, Grade 1, 1984.

TO ORDER, SPECIFY
1. Model number
2. FS (fail safe, when required)
3. DS or DS-LC (dual switch, when required)
4. Voltage 12VDC or 24VDC
5. SO12 or SO24 (required when using AC)
6. Finish
7. Entry buzzer, FSE only (when required)

Note: Information listed is for use on new applications. On retrofit applications, modification of the frame preparation may be required, consult factory.

VON DUPRIN® 6111, 6112, 6113 Electric Strikes

6111
Electric strike for use with rim exit devices on single doors or double doors with mullion applications (hollow metal, aluminum or wood). Designed to replace Von Duprin 3031. 55-ENGR no charge.

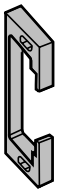
6112
Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood). Designed to replace Folger Adam 310-4, minor frame prep required.

6113
Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood), ½″ *(13mm)* stop or greater. Designed to replace Von Duprin 3011 and 3021.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer

6111/6113 ELECTRIC STRIKE BLADE STOP SHIM 010055-XX



Use on cased opening or blade stop frame. ½" (13mm) aluminum, not for fire door application.



6111



6112



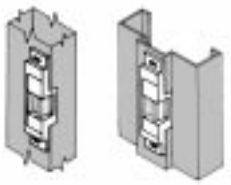
6113

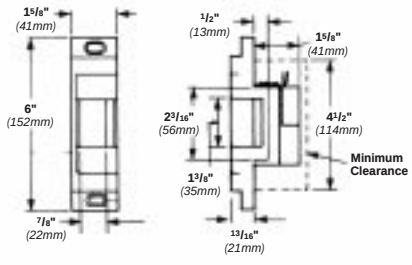
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59311
Listing applies to Von Duprin rim devices.

DIMENSIONS AND CONFIGURATIONS

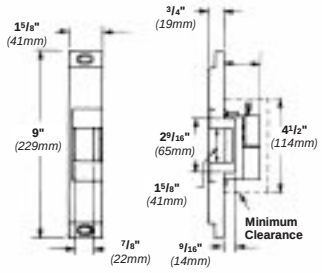
6111





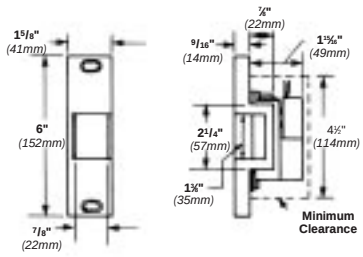
6112





6113





VON DUPRIN® 6114, 6121 Electric Strikes

6114
Electric strike for use with rim night latches having up to ¾″ *(19mm)* bolt throw. Replace Folger Adam 310-5.

6121
Electric strike for use with rim exit devices on double door applications, without mullion (hollow metal, aluminum or wood). Strike mounts on inactive leaf. Replace Folger Adam 310-4-100.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer



6114



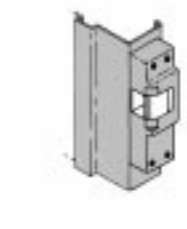
6121

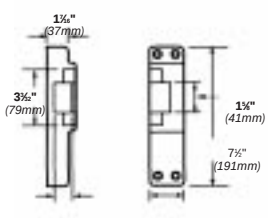
UL listed Burglary Resistant CVXY. ANSI E59371

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

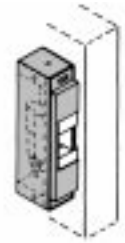
DIMENSIONS AND CONFIGURATIONS

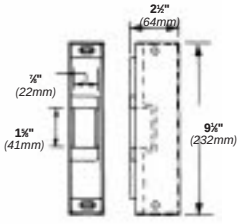
6114





6121





6210
Electric strike for use with mortise locks **without deadbolt** on single door, hollow metal frame applications and using ANSI prep at standard height. Strike pocket inserts are provided to accommodate different manufacturers deadlocking trigger locations.

6211
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal frame applications. Designed to replace Von Duprin 3140 or Folger Adam 712.

6211AL
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, aluminum frame applications. Designed to replace Folger Adam 722.

6211WF
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications. Designed to replace Folger Adam 732.

FEATURES
- All Stainless Steel Construction
- Accepts ¾" (19mm) Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer



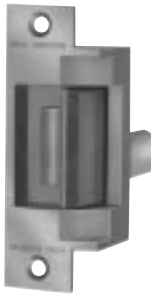
6210



6211



6211AL



6211WF

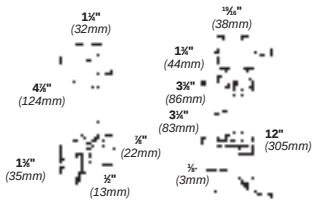
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

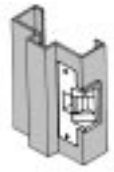
DIMENSIONS AND CONFIGURATIONS

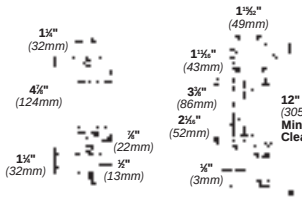
6210



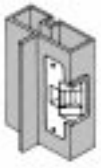


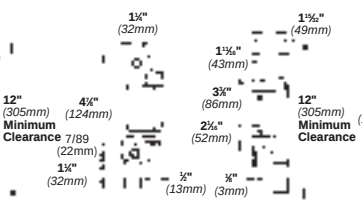
6211



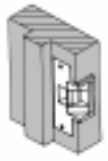


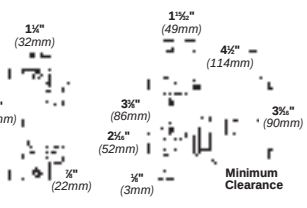
6211AL





6211WF





VON DUPRIN® 6212, 6212WF Electric Strikes

6212
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications.
Fits modified ANSI 115.2 cutout.
Designed to replace Von Duprin 3146.

6212WF
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications.

Note: Strike pocket insert is furnished for use with Von Duprin 7500 mortise lock.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer

Strike mounting tabs are furnished for use with modified ANSI 115.2 cutout. Tab can be machine screw mounted or welded in place.



6212



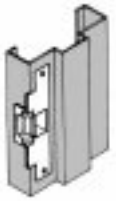
6212WF

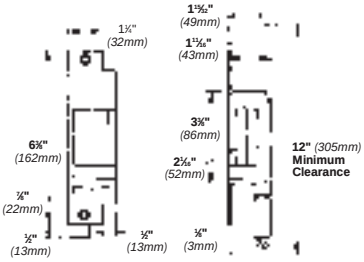
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

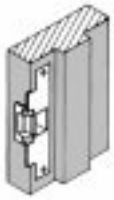
DIMENSIONS AND CONFIGURATIONS

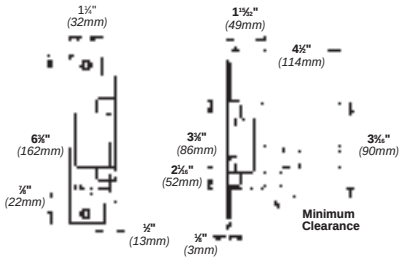
6212





6212WF





VON DUPRIN® 6213, 6214, 6215, 6216 Electric Strikes

6213
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications (includes wood frame on retrofit application). Designed to replace Von Duprin 3041, 3042, 3061 and 3062.

6214
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2¾.

6215
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2.

6216
Electric strike for use with mortise locks **with deadbolt**, 1″ *(25mm)* throw, on single door, hollow metal, aluminum or wood frame applications. Deadbolt must be manually operated. Designed to replace Folger Adam 310-3-1.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer



6213



6214



6215



6216

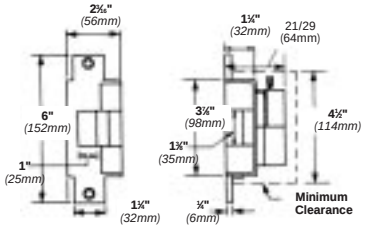
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

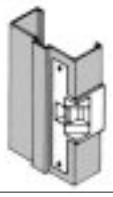
DIMENSIONS AND CONFIGURATIONS

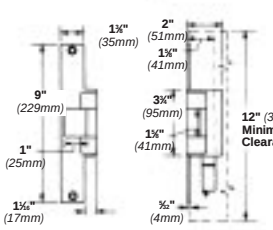
6213



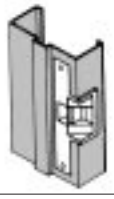


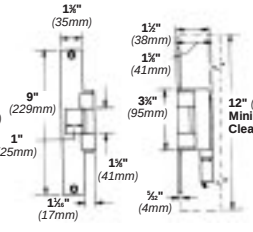
6214



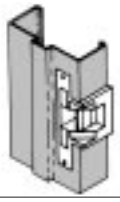


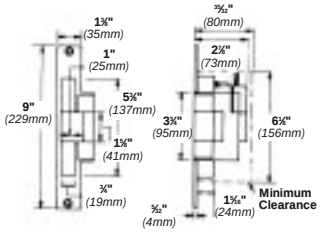
6215





6216





VON DUPRIN® 6221, 6222, 6225 Electric Strikes

6221
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. Designed to replace Von Duprin 3071 and 3072.

6222
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal or aluminum applications. Designed to replace Folger Adam 310-23/4 OB. No DS option for open backs (47″ x 75″ use "A" Backbox.) No extra charge.

6225
Open back electric strike for use with mortise locks without deadbolt or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal or aluminum applications. Designed to replace Folger Adam 310-2 OB.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Plug Connectors

OPTIONS
- Fail Safe
- Entry Buzzer



6221



6222



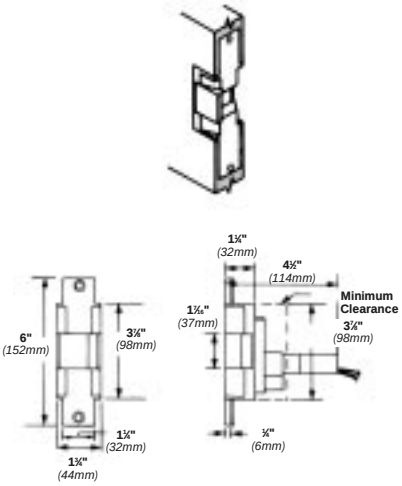
6225

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

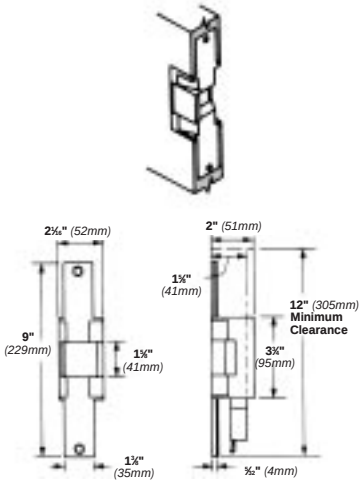
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

DIMENSIONS AND CONFIGURATIONS

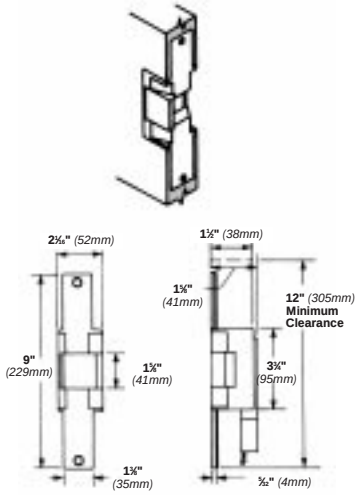
6221



6222



6225



VON DUPRIN® 6223, 6224, 6224AL, 6226 Electrical Strikes

6223
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. Designed to replace Von Duprin 3091 and 3092, mortise applications only — 4¾″ (*120mm*) minimum stile required.
Not for wood applications.

6224
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2¾.
Not for wood applications.

6224AL
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick aluminum double door applications. Designed to replace Folger Adam 310-2RF.

6226
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2.
Not for wood applications.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer



6223



6224



6224AL

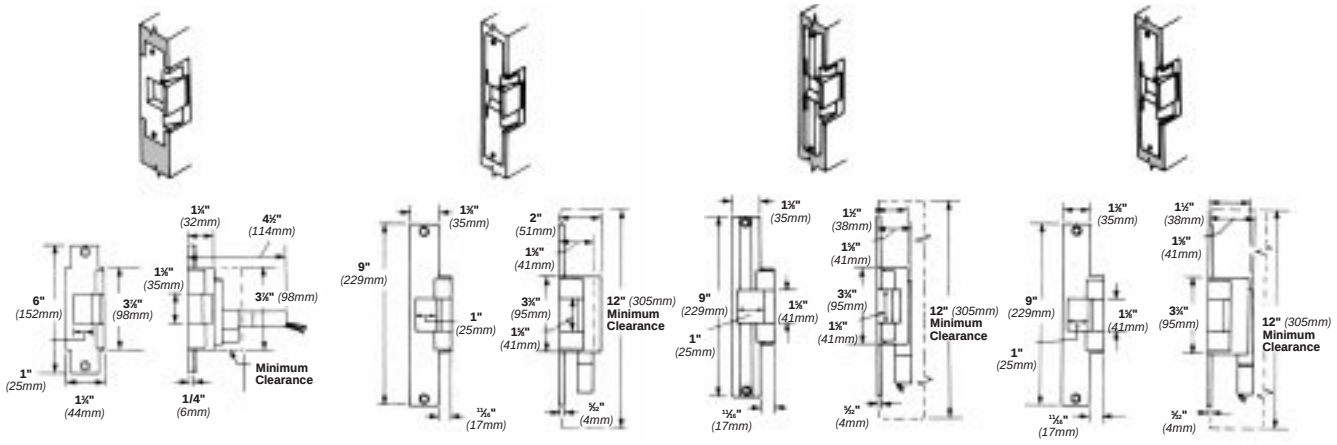


6226

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

6223	6224	6224AL	6226



VON DUPRIN® 5100 Electric Strike

5100

The Von Duprin 5100 Electric Strike has been designed and manufactured to meet the needs of locksmiths and security professionals. This easy-to-install electric strike was created for medium duty applications,specifically to control traffic flow through interior and exterior openings in retail and commercial environments. And because it's the Von Duprin brand, you know that you can depend on the product quality and performance.

VERSATILITY

Fewer products to inventory and more value for your money.

- Three faceplates included for hollow metal, wood or aluminum frames.
- Internal 12/24 dual-voltage solenoid.
- Adjustable keeper.
- Fail-safe/fail-secure selectability.

CONVENIENCE

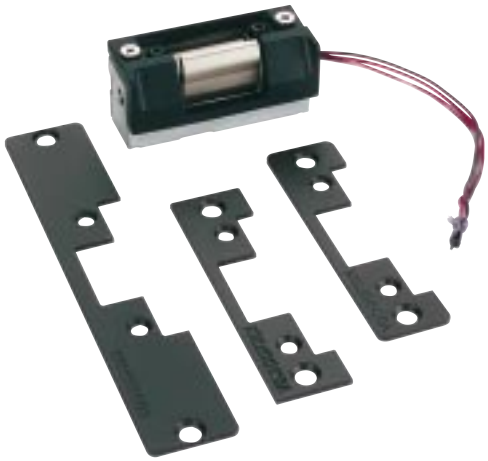
The right parts in the box means getting the job done right the first time, every time.

- Reduce labor expense.
- Fewer return trips to the job site.

DURABILITY

Developed with Von Duprin's high standards and engineering expertise.

- Heavy-duty construction.
- Tamper resistant design.
- Tested to over one million cycles.
- 1300 lbs. holding strength.



FEATURES

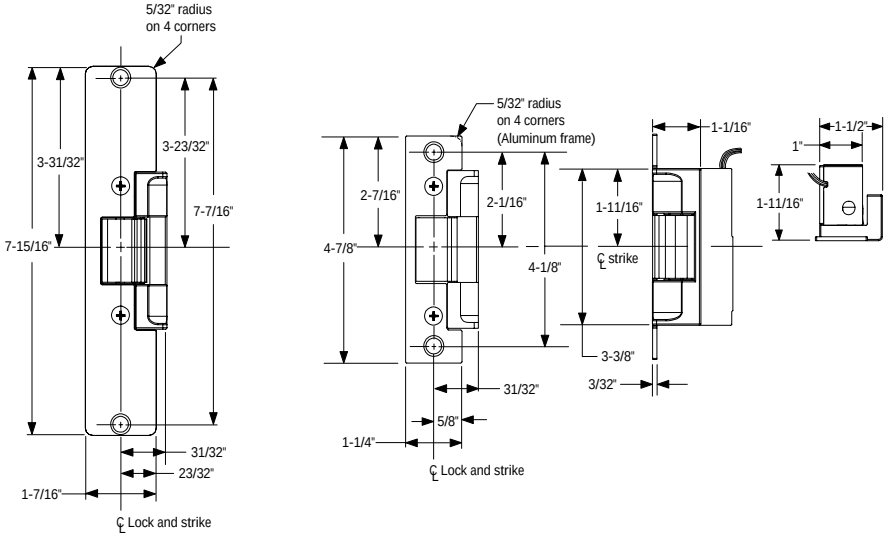
- Three faceplates standard in every box
- 12/24 dual-voltage
- Fail-safe/fail-secure
- Adjustable keeper
- Internal solenoid
- Non-handed
- Backbox depth of $1\frac{11}{16}$"
- Keeper depth of ½"
- Mounting tabs
- Retrofit kit
- Illustrated installation instructions
- Tamper resistant
- 1 year electrical product warranty
- Continuous duty operation
- Heavy duty construction

APPLICATIONS

- Cylindrical locks
- Aluminum dead latch

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	32	128
Power (watts)	4.5	4.5
Current (amps)	.38	.19

All specs ± 10% @ 77°F/25°C
ANSI/BHMA 156.5 Grade 1
UL 1034 Burglary Listing



VON DUPRIN® Electric Strike/Lock Compatibility Information

Chart 1

RIM EXIT DEVICE COMPATIBILITY 6111, 6112, 6113 & 6121 Strikes	
Manufacturer	**Device (panic/fire)**
Von Duprin	22, 33, 35, 88, 98, 99
Magnokrom	Rim
Monarch*	11-R, XX-R, 18-R, 19-R
Precision	810, 1100**
Sargent	2800, 6500, 6800, 8500, 8800, 9500, 9800**, 9898
Yale	1500, 7000, 7200

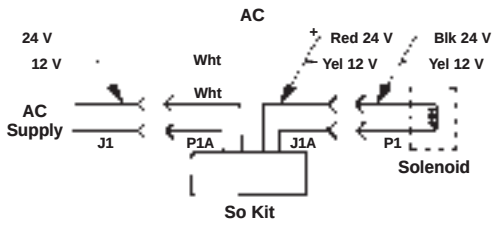
**Deadlocking feature will not properly function, consult factory.

**Panic only.

Chart 2

MORTISE LOCK COMPATIBILITY 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes	
Manufacturer	**Mortise #**
Von Duprin	7500
Adams Rite	4510, 4710
Baldwin	6000
Best	24H, 30H
Corbin	9000
Falcon	M2300, M2500, M2600 M3300, M3500, M3600
Precision	Mortise
Russwin	Mortise
Sargent	7700, 8100, 9000
Schlage	L9000, K30, K40, K50, K60
Yale	7030, 7130, 8600, 8700

Note: Von Duprin cannot guarantee compatibility as other manufacturer's designs may change without notice.



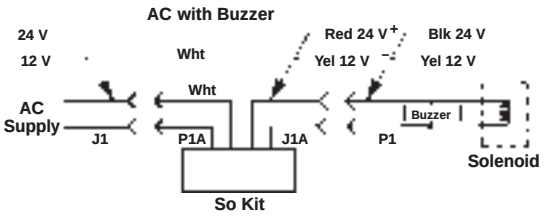


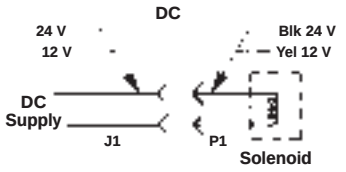
Chart 3

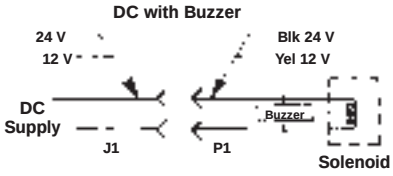
CYLINDRICAL LOCK COMPATIBILITY 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes	
Manufacturer	**Cylindrical**
Baldwin	½″ – ¾″ (13mm – 19mm)
Best	⅜″ – ¾″ (10mm – 19mm)
Corbin	½″ – ¾″ (13mm – 19mm)
Falcon	½″ – ¾″ (13mm – 19mm)
Russwin	½″ – ¾″ (13mm – 19mm)
Sargent	½″ – ¾″ (13mm – 19mm)
Schlage	⅜″ – ¾″ (10mm – 19mm)
Yale	½″ – ¾″ (13mm – 19mm)

Note: Signalling may not function when using 3⁄8" (10mm) throw bolt. Deadlocking cannot be guaranteed with all locks.

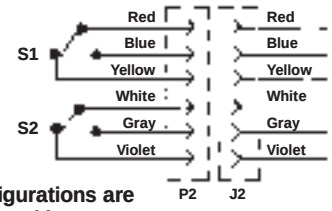
Chart 4

MORTISE LOCK AND 6210 COMPATIBILITY	
Von Duprin	7500
Best	30H
Corbin/Russwin	ML2200, 5000, 9000
Falcon	M100, M200, M300, M400, M500, M600
Sargent	7700, 8100 (Not 7800/8200)
Schlage	L9000
Yale	8700





Optional DS (FSE Shown)
Wiring shown with strike locked and monitor tripper depressed



Different wiring configurations are used depending on Backbox type and FS or FSE.

CROSS REFERENCE

Name	Strike/Lock Mounting	# Doors	Frame Material (SGL Dr) Door Material (DBL Dr)	Faceplate Length	Drop In Replaces Von Duprin:	Drop In Replaces Folger Adam:
6111	Rim Device	Single[1]	All	6″	3031	
6112	Rim Device	Single	All	9″		310-4[4]
6113	Rim Device	Single	All	6″	3011, 3021	
6114	Rim Nightlatch	Single	All	7″		310-5[5]
6121	Rim Device	Double-Closed Back	All	9″		310-4-100[5]
6210	Mortise	Single	HM/Alu	4⅞″		
6211	Mortise or Cylindrical	Single	HM/Alu	4⅞″	3140	712
6211AL	Mortise or Cylindrical	Single	Aluminum	4⅞″		722
6211WF	Mortise or Cylindrical	Single	Wood	4⅞″		732[6]
6212	Mortise or Cylindrical	Single	HM/Alu	6⅜″	3146	
6212WF	Mortise or Cylindrical	Single	Wood	6⅜″		
6213	Mortise or Cylindrical	Single	All[2]	6″	3041, 42, 61, 62	
6214	Mortise or Cylindrical	Single	All[3]	9″		310-2 3/4
6215	Mortise or Cylindrical	Single	All[3]	9″		310-2
6216	Mortise and Deadbolt	Single	HM/Alu	9″		310-3-1
6221	Mortise or Cylindrical	Double-Open Back	All	6″	3071, 72	
6222	Mortise or Cylindrical	Double-Open Back	HM/Alu	9″		310-2 3/4 OB
6223	Mortise or Cylindrical	Double-Closed Back	All	6″	3091, 3092	
6224	Mortise or Cylindrical	Double-Closed Back	HM/Alu	9″		310-2 3/4
6224AL	Mortise or Cylindrical	Double-Closed Back	Aluminum	9″		310-2 RF
6225	Mortise or Cylindrical	Double-Open Back	HM/Alu	9″		310-2 OB
6226	Mortise or Cylindrical	Double-Closed Back	HM/Alu	9″		310-2

[1]Includes double door with mullion.
[2]Recommended on wood frames only if drop in replacement is needed for 3041, 42, 61, 62 on wood frames. Otherwise use 6211WF.
[3]Recommended on wood frames only if drop in replacement is needed for 310-2 3/4, 310-2 on wood frames. Otherwise use 6211WF.
[4]Strike lip area cutout is slightly larger than Folger Adam.
[5]Surface applied strike. Mounting hole locations different from Folger Adam.
[6]Wood frame horizontal solenoid location differs from Folger Adam. May require new frame prep when retrofitting.

FINISHES

US Number	BHMA Number	Description	Von Duprin Number
US3	—	Plated Polished Brass on Stainless Steel	85
US4	—	Plated Dull Brass on Stainless Steel	84
US10	639	Plated Dull Bronze on Stainless Steel	06
US10B	640	Plated Dark Bronze on Stainless Steel	86
US32	629	Stainless Steel, Polished	31
US32D	630	Stainless Steel, Satin	32

WIRE SIZE SELECTION

	Current requirement at 24VDC			
Length of wire run (in feet)	0-.5 Amp	.5-1 Amp	1-2 Amp	2-3 Amp
0-100	18	18	18	18
100-200	18	18	18	16
200-300	18	18	16	14
300-450	18	16	14	12
450-600	18	16	12	NR
600-900	16	14	NR	NR
900-1200	14	12	NR	NR

NR — Not recommended

The EL electric latch retraction feature provides remote unlocking ability to exit devices. The feature is available with 33, 35, 94, 95, 98 and 99 series devices, rim, mortise and vertical rod. A control station operator can flip a switch to retract the latch bolt and immediately change an exit only or latched door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt…for momentary unlocking, or for extended periods of time, in lieu of manual dogging.

EL devices are also useful with automatic door operators, and may be applied to fire-rated devices when under the control of an **automatic fire alarm system**.

This feature does not include the power transfer from door to frame, nor the power supply or control operator. (Refer to page 25 for the EPT-2 electric power transfer, and to page 24 for the PS-873 Power Supply).

Resistance - New Style 1987 and after
GRN-YEL 1.2-2 OHMS
GRN-ORN 135-150 OHMS



Rim device shown — Refer to 33/35, 98/99 or 94/95 Series catalog for complete product information, mounting styles, outside trim, finishes, etc.

Minimum Door Width: 3´ *(914mm)* device–2´6˝ *(762mm)*, 4´ *(1219mm)* device–3´0˝ *(914mm)*

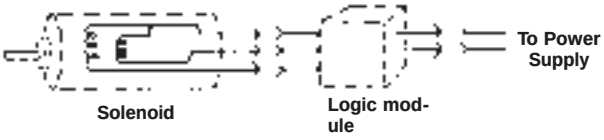
UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware. Consult Device catalog for Fire Rated Models.



Supplied with 3' (914mm) Cable at the hinge side of door.

SPECIFICATIONS	
Solenoid	
Continuous Duty	24VDC
Current Inrush	
(300 milliseconds)	16 amperes
Current Holding	
(33/35 + 98/99)	0.3 ampere
Current Holding (Inpact)	0.5 ampere

Caution: Power supply must be a PS873-2 minimum.



NOTE: Requirements for field wiring between door frame and Power Supply (See page 23). Up to 100 Ft. - 14 gage. Over to 100 Ft. - 12 gage.

The E98/E99 electric rim device provides remote unlocking capabilities. A control station operator can flip a switch to lock or unlock the outside trim. The 24VDC solenoid assembly contains a SPDT (single pole double throw) signal switch to monitor the outside trim (locked or unlocked). A second switch monitors the latchbolt position.

The device is standard as fail safe (FS). When power is off, the trim is unlocked. The trim may then be relocked electrically (by applying power). The device is field convertible for fail secure (FSE) applications.

The outside trim cylinder retracts the latchbolt for mechanical override.

Note: Some Fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.



E98/E99

Rim device shown — Refer to 33/35 or 98/99 Series catalog for complete product information, mounting styles, outside trim, finishes, etc.

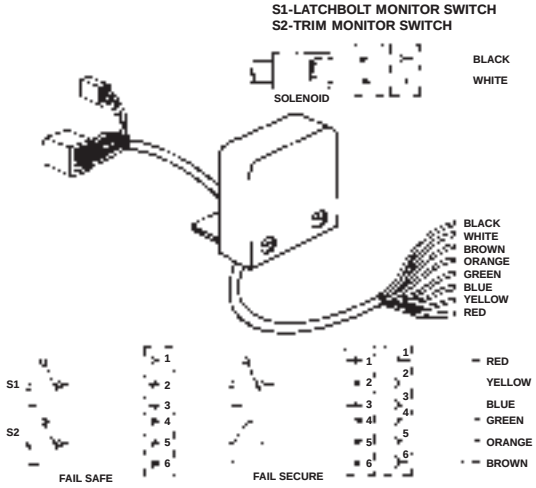
SPECIFICATIONS
Solenoid — 24VDC, 0.25 ampere
Each switch — rated 0.3 ampere, 24VDC

Refer to page 25 for power transfers and page 24 for power supplies.

UL listed FVSR SA163 panic hardware and GXHX R4504(N) fire exit hardware.



Supplied with 3' (914mm) Cable at the hinge side of door.



WIRING SHOWN WITH TRIM LOCKED AND LATCHBOLT EXTENDED

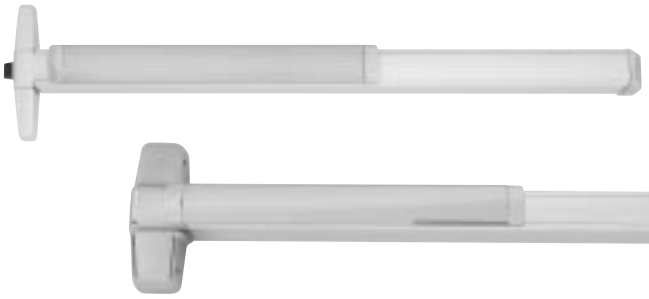
The RX (request to exit) signal switch feature is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch which monitors the touch bar.

The LX (latchbolt monitoring) signal switch monitors both egress and access of an opening. When the latchbolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch which monitors the latchbolt position.

The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Most other electrical functions (EL, E) may be combined with the RX or LX feature.

RX and LX switches are available for factory or field installation.



LX33/LX35
RX33/RX35

LX98/LX99
RX98/RX99

Rim device shown — Refer to 33/35 or 98/99 Series catalog for complete product information, mounting styles, outside trim, finishes, etc.

SPECIFICATIONS

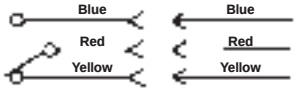
Switch rated 10 amperes @ 24VAC/ DC resistive

When used with inductive or capacitive loads, switch capacity will deteriorate.

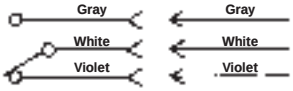
UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.



Supplied with 3′ (914mm) Cable at the hinge side of door.



RX Switch **3**' *(914mm)* **Cord**



LX Switch **3'** *(914mm)* **Cord**

VON DUPRIN® Signal Switch SS

The SS signal switch feature is used to signal the unauthorized use of an opening. Available in rim, mortise and vertical rod, these devices are equipped with two internal SPDT (single pole double throw) switches. One switch monitors both the touch bar and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1¼″ *(32mm)* mortise cylinder (cylinder not furnished) for alarm "bypass" (momentary switch — not time delay).

The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

SS mortise lock devices are furnished with both signal switch device and **SS7500** mortise lock, total of four switches.

The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signalling functions to monitor latch bolt operation and trim locking function.

Emergency Exit Push to open and sound alarm.



SS33/SS35

SS98/SS99

Rim device shown — Refer to 33/35 or 98/99 Series catalog for complete product information, mounting styles, outside trim, finishes, etc.

Minimum Door Width: 3′ *(914mm)* device–2′ 6″ *(762mm)*, 4′ *(1219mm)* device–3′ 0″ *(914mm)*

Actual device length will vary depending on device type, strike being used, stop height, single or double door, etc.

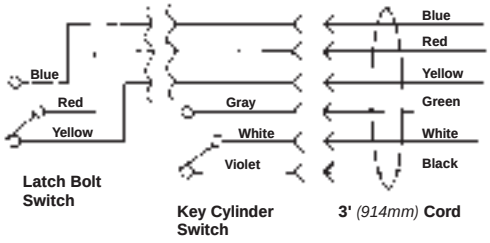
UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.

SPECIFICATIONS

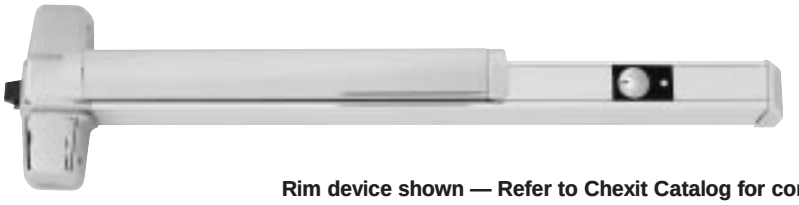
Each switch rated 0.5 ampere 24VDC



Supplied with 3′ (914mm) Cable at the hinge side of door.



VON DUPRIN® Chexit® Controlled Exit Device



Rim device shown — Refer to Chexit Catalog for complete selection information.

Chexit Controlled Exit Device Series CX98 and CX99 are designed for use on Accident Hazard or Fire Exit Hardware applications and combines life safety with the needs of security and meets all requirements of NFPA 101® for "Special Locking Arrangement" and UBC "Special Egress-control Devices".

This exit hardware device will keep an exit door secured for a 15 second period, yet tied into the fire alarm system will release immediately when an alarm condition exists. All controls, auxiliary locking, local alarm, and remote signaling output are self-contained in the Chexit assembly, providing safe, secure and easy to install door control hardware.

Chexit system is ideal for highly controlled areas such as airports, hospitals, government facilities, computer rooms, research and development labs, retail stores, libraries and security facilities.

- Non handed
- Field sizable
- ¾˝ *(19mm)* throw, latchbolt
- Deadlocking

Models are available for rim, mortise lock, surface vertical rod and concealed vertical rod mounting styles. UL listed for use on panic or fire exit doors, 3´ or 4´ wide.

A complete system requires a power supply and a power transfer.

Finishes — US3, US4, US10, US26, US26D, US28, US32D and 313.

Electrical Specifications
Voltage — 24VDC
Current — .4 amperes with 300 millisecond 16 ampere in-rush on arming External alarm contact — 1 ampere @ 24VDC
Fire alarm input, external inhibit input, door position input — setup for normally closed contacts

FEATURES
Request to Exit Switch is built in to detect when someone attempts to exit. Applying less than 15 pounds to the pushpad will cause this switch to start an irreversible alarm cycle.

Nuisance Alarm — If the Nuisance Audible and Nuisance Delay options are set to off, the device will go into alarm as soon as the pushpad is touched. Turning the Nuisance Delay on will require the pushpad to be pressed for 2 seconds before the Chexit goes into alarm which is ideal in public areas. If the Nuisance Audible and Nuisance Delay are both on, the alarm will sound as soon as the pushpad is pressed, but the alarm sequence will stop unless held for 2 seconds or more.

Remote Alarm — A set of relay contacts (rated 1 ampere, 24VDC) are provided to give external alarm indication. These contacts close when the device is in an irreversible alarm condition. These contacts can be used to drive a horn, lamp, or other indicative device.

Key Switch — The Key Switch provides the means to arm, disarm, or reset the Chexit. The key can be removed in either the Arm or Disarm position.

Indicator Lamp — The status of the Chexit can be determined by the Indicator Lamp. When the lamp is off, indicates disarmed and is functioning as a normal exit device. A slow flashing lamp indicates armed. A fast flashing indicator lamp indicates the device is in alarm.

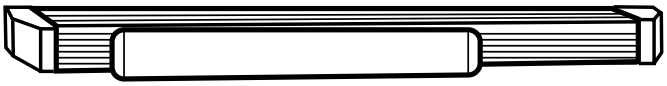
Internal Horn — Whenever the device is in alarm or the pushpad is pressed the internal horn will sound. The volume level of this horn exceeds 85 db at 6 feet.

Door Position Input — An external door position switch can be connected to the Chexit. The door position switch will cause the alarm to sound if the door is not closed when the device is armed.

External Inhibit Input — This optional input is provided to allow remote over-ride of the Chexit in the armed condition. It also allows remote reset of the Chexit in an alarmed condition.

Fire Alarm Input — This input disables the Chexit immediately upon a fire alarm.

Internal Auxiliary Lock —The Auxiliary Lock is engaged when the Chexit is armed. The locking mechanism is specifically designed to hold securely even when the exit device is struck with forceful blows.



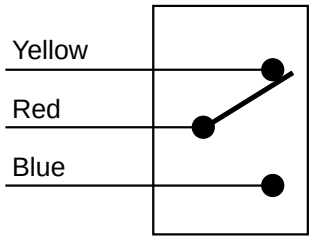
The 330TBSK and 350TBSK bar with active pushpad with monitoring switch or “request to Exit” switch, used to inhibit alarms for authorized exiting. The 330 grooved outer case and the 350 smooth outer case are designed as companion units for Series 33, 35, 98 and 99 exit devices.

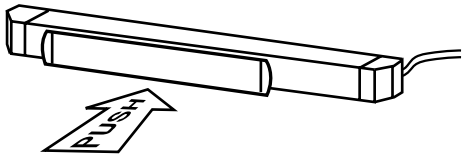
The internal SPDT switch should not be used to control a load, but as a signaling switch.

Two sizes are available 3´ *(914mm)* and 4´ *(1219mm)*; 3´ *(914mm)* unit for door widths 2´6˝ *(762mm)* to 3´ *(914mm)*, and 4´ *(1219mm)* unit for door widths 3´1˝ *(940mm)* to 4´ *(1219mm)*.

Electrical Rating
SPDT 10 ampere @ 24VDC

TBSK330





Supplied with 3´ (914mm) cable at the hinge side of door.

VON DUPRIN® CM993 and PRO993 Exit Trim

The Von Duprin Computer Managed CM993 exit trim is a stand-alone, battery-powered exit trim for use on doors where an exit device is required for egress. The CM993 is designed to be used with Von Duprin 98/99 exit devices for unmatched access control and ease of use. It can be programmed with LockLink™ or LockLink™ Express access control management software. The same software can also manage the Schlage CM Locks and the Locknetics Universal Controllers, which provide intelligent access control for electrified or battery-powered products such as magnets, strikes and cabinet locks.

Multiple users, Multiple access points. Multiple credentials. One way to manage them.

Provides Unmatched Access Control

- Manages up to 1,000 users and provides audit trail for last 1,000 events
- SmartTime feature allows for time functionality:
  - time zones
  - time schedules
  - holiday overide periods
  - first person in
  - credential activation and expiration
- Full-swipe mag stripe card reader for maximum readability and reliability
- Optional audit trail of mechanical key override
- Auto card updating feature which disables a lost or stolen mag stripe card when the reissued card is presented at the lock
- LED status indicators

Easy to Retrofit… Easy to Operate and Architecturally Designed for New Construction

- Directly retrofits existing trim
- Fits doors from 1⅜″ to 2¼″ thick
- Comes with Schlage Everest 1¼″ cylinder, but can adapt to other existing key systems
- LockLink™ software that programs the locks is Windows®-based and menu-driven. It can be operated with minimal training



CM993 Exit Trim



For use with VonDuprin 98/99 Series Exit Devices including Rim, Surface Vertical, Concealed Vertical and Three-Point latching models. (Not for use with mortise devices.)

Conversion to New Card System Not Necessary

- Our exit device trims most likely work with your existing mag card and HID prox cards

Programmable PRO993 Exit Trim for Manual Programming

- Manually program up to 120 keycodes right at the trim
- Similar mechanical features as CM993
- Complements Schlage PRO and Locknetics PRO Series products



VON DUPRIN® How To Order Exit Trim

CM993 – MGK – 06 – LH – KD – 695 – EXT

- **Select Model**
- **Select Access Credential Option**
- **Select Lever**
- **Select Handing**
- **Select Key Cylinder Option**
- **Select Finish**
- **Select Trim Options**

1. Select Model



CM993 Computer managed exit trim

993-DT Dummy trim for inactive leaf

PRO993 Manually programmed exit trim

993-BE Blank escutcheon

2. Select Access Credential Option (CMs only)



KPI
Keypad iButton Reader



IBO
iButton Reader



MGK
Mag Card Reader Keypad iButton Reader



MGI
Mag Card Reader iButton Reader



PXK
HID prox Reader Keypad iButton Reader



PXI
HID prox Reader iButton Reader

3. Select Lever



06 (Standard)



03



17

4. Select Handing

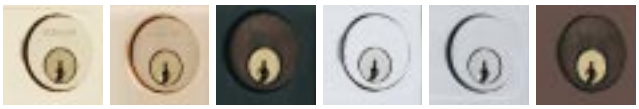
RH Right Hand
LH Left Hand
Note: Handing is field-reversible

5. Select Key Cylinder Option

KD Schlage Everest Cylinder
LC Less Cylinder

Note: Master keyed cylinders order separately

6. Select Finish



605 Bright Brass

612 Satin Bronze

613 Oil Rubbed Bronze

625 Bright Chrome

626 Satin Chrome (Standard)

695 Duranodic Dark Bronze

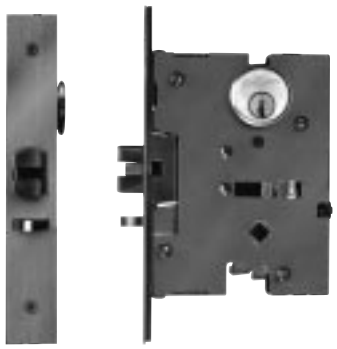
7. Select Trim Options

ATK Audit trail of mechanical key override, includes ATR (Requires computer programming)
T3 ABA Track 3 Mag Card Reader (ABA Track 2 is standard for MGI and MGK Series only)
EXT Mag Card Reader for exterior use (for MGI and MGK Series only)
Door Thickness State door thickness. Available from 1⅜" to 2¾" in ⅛" increments
EG Exterior Gasket for PRO993 only

Select Credentials

IBA iButton (adhesive backed)
IBF iButton on Fob
MAG1 Magnetic Stripe Card – Blank
MAG2 Magnetic Stripe Card – Pre-encoded
PRX1 Prox Card – Standard .070" thick
PRX2 Prox Card – Adhesive backed for photo application, .070" thick
PRX3 Prox Card – ISO – credit card size and thickness, .031" thick
PRX4 Prox Card – Dual Technologies, magnetic stripe and Prox, .031" thick
PF1 Prox Fob

VON DUPRIN® Electric Mortise Lock E7500



UL listed FVSR SA163 panic hardware and GXHX R4504(N) fire exit hardware.

SPECIFICATIONS
Solenoid — 24VDC, .3 ampere, Continuous Duty
Solenoid — 12VDC, .6 ampere, Continuous Duty

The E7500 electric mortise lock for use with 55, 88, 98 and 99 series has all the versatility and advantages of the 7500 mortise lock plus the advantage of being electrically controllable by a remote switching device, an access control or automatic fire alarm system. **The E-7500 controls the locking of the outside trim.** When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking, but require unlocking during a fire emergency.

E7500 features a **signalling function** to monitor the latch bolt and trim locking function.

1¼″ *(32mm)* mortise cylinder with straight cam (not furnished) unlocks trim, trim locks when key is removed. Key retracts latch bolt.

FEATURES

- Field reversible
- 24VDC continuous duty solenoid
- Tamper resistant
- Corrosion resistant
- Internal solenoid

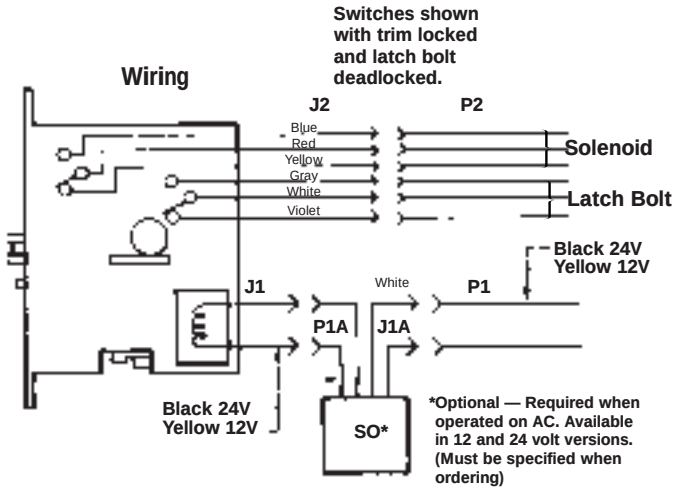
OPTIONS

- Fail safe (locked when energized,
- unlocked when de-energized or during power failure specify with suffix “FS”).
- Fail secure (unlocked when energized — specify with suffix “FSE”). Outside trim automatically relocks, unless held unlocked electrically.
- 24VAC (includes SO option).
- 12VDC or 12VAC (includes SO option).

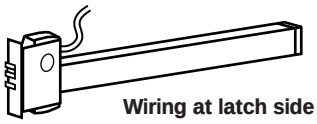
Note: Some Fire codes will require “Fail Safe” (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

TO ORDER

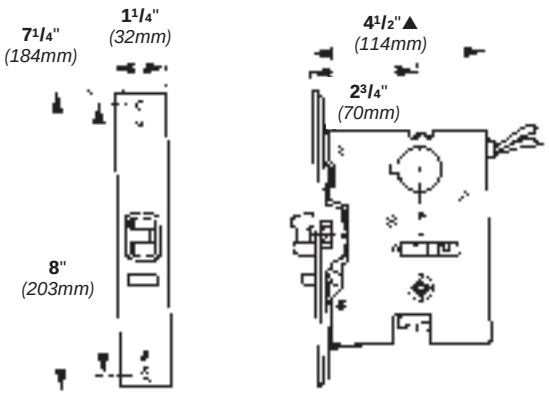
Refer to device catalog section for complete product information (type, function, finish, etc.)



ET500 shown.
SS7500 includes only J2/P2 connectors and wiring



Wiring at latch side of door.



s413/169 (122mm) clearance required for wiring.

SERIES PS861

The series PS861 power supply is designed for electromagnetic locks and electric strikes on single door applications. The output power is field selectable for either 24VDC @ 1 ampere or 12VDC @ 2 ampere. Standard input 120VAC @ 0.6 ampere and 240VAC @ 0.3 ampere available. Terminal block will accept up to 14 gauge stranded wire.



Enclosure is 10″ high x 12½″ wide x 5″ deep* *(254mm x 323mm x 127mm)*, gray with 1 hinged cover and constructed of heavy 19 gauge steel. Six ½″ *(13mm)* knockout holes are provided for conduit connection.

Options include keylock cover and sealed lead acid battery pack. The pair of batteries will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored. Not appropriate for CX or EL devices.

FOUR CONFIGURATIONS

PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861BK	Battery backup and keylock cover

* Standardized enclosure shipping Mid-January, 2003.

SERIES PS873

The series PS873 power supply is designed to operate a wide variety of electrical products. EL panics require 871-2 PCB minimum. The regulated output power is field selectable for either 24VDC @ 2 ampere or 12VDC @ 4 ampere. Standard input 120VAC @ 1.0 ampere or 240VAC @ 0.5 ampere available.

Enclosure is 10″ high x 12½″ wide x 5″ deep *(254mm x 323mm x 127mm)*, gray with a hinged cover and constructed of heavy 19 gauge steel. Five ½″ x ¾″ *(13mm x 19mm)* knockout holes are provided for conduit connection. Terminal block will accept up to 12 gauge wire.

The PS873 can be ordered with three standard options: **Key lock** secures the cover to eliminate tampering and provides safety; **Battery backup** provides two hours backup power at full load during a A.C. power failure; **Fire Alarm** provides input for a normally closed fire alarm contact. When the fire alarm contact is “open”, power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

Eight standard configurations:

PS873	Standard
PS873K	With keylock
PS873B	With battery
PS873BK	With battery and keylock
PS873FA	With fire alarm
PS873K-FA	With keylock and fire alarm
PS873B-FA	With battery and fire alarm
PS873BK-FA	With battery, keylock and fire alarm

The series PS873 is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

Factory or Field Installed Circuit Cards:
871-2, Two Zone controller provides two inputs and two outputs. Use suffix “-2” for factory installed. Will operate one or two EL exit devices.

873-AL, Alarm function monitors 1 or 2 zones and provides alarm output, upon detecting a door in the open position. Delayed alarming is selectable from 5 to 75 seconds. Use suffix “-AL” for factory installed.

873-AO, Auto Operator function coordinates the release of one or two locks and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods; by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by a “RX” type input switch. Use suffix “-AO” for factory installed.



873-SI, Security/Safety Interlock provide interlock function for two zones. When combined with a second 873-SI card, the inter-locking of groups are available in two, three or four zones. Safety interlock is available, consult factory for additional information. Use suffix “-SI” for factory installed.

873-4TD, Four Zone controller with **Time Delay** provides four inputs and four outputs with time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. Use suffix “-4TD” for factory installed.

873-AC, Access Control provides supervision of one zone using an electromagnetic lock. Input signals required are: access control contact, motion detector contact, and motion detector override contact. FA, Fire Alarm option is required. Use suffix “-AC”.

Factory Installed Only Circuit Cards:
873-DE, Delayed Egress function ideal for use with electromagnetic locks, will operate two zones simultaneously. To operate two separate zones, a second 873-DE card is required. UL listed component, when used as part of a Von Duprin delayed egress system. Use suffix “x DE”.

Electrical Power Transfer

Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completed concealed when the door is in the closed position, and are ideally suite for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires.

Door applications; up to 5" butt hinges — 180° swing, 5½" butt hinges — 130° swing, 6" butt hinges — 110° swing, and ¾" offset pivots 180° swing.

FINISHES

SP28 (sprayed aluminum) and SP313 (sprayed duranodic)

SPECIFICATIONS
Housing — 9" x 1$\frac{7}{16}$" x 1½" *(229mm x 37mm x 38mm)*
EPT-2 — Two 18 gauge wires Rating, 24VDC 2 amperes, 16 amperes maximum surge
EPT-10 — Ten 24VDC 1 ampere

TO ORDER, SPECIFY:

1. EPT-2 or EPT-10
2. Finish, SP28 or SP313



UL Listed as "Miscellaneous" Fire Door Accessory" GVUX

Junction Box

High quality NEMA 1, junction boxes provide convenient installation, available in three models. These surface mounted units are 10˝ *(254mm)* high, 10" *(254mm)* wide and 6˝ *(152mm)* deep and includes hinged door with twist turn lock. 24 position terminal strip will accept from 24 to 12 gauge wire.

Five models:

JB7 Junction box only.

JB7-R1 Junction box with SPDT Relay.

JB7-R2 Junction box with DPDT Relay.

JB7-R3 Junction box with DPDT Relay on Make Relay.

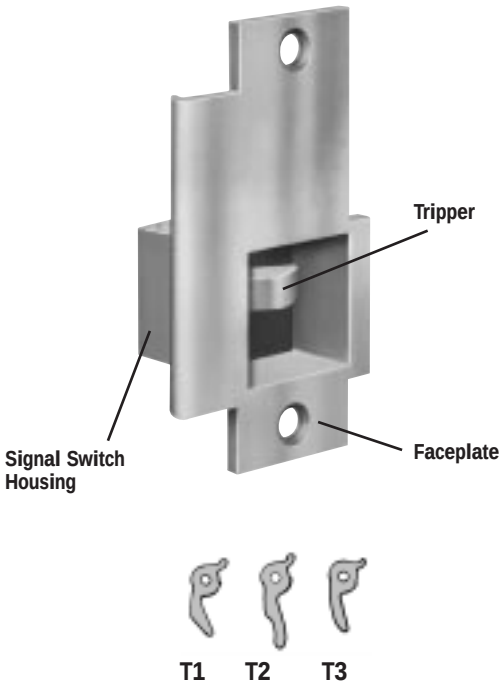
JB7-R4 Junction box with DPDT Relay on Brake Relay.



VON DUPRIN® Monitor Strikes

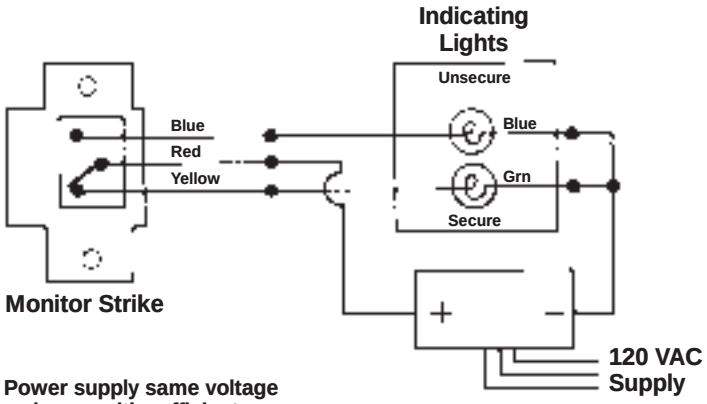
Monitor Strikes replace the standard box strike and add a TRIPPER that is depressed when the latchbolt is fully inserted in the strike. The tripper is stainless steel and activates an electric switch.

SPDT Switch — The monitor switch is supplied SPDT (single pole double throw), rated 24VDC @ 2 amperes (resistive). These contacts are shown in the "secure" position.

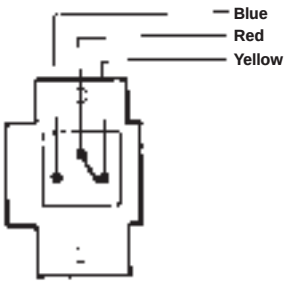


▲Tripper selection is based on the throw and shape of the latch bolt.

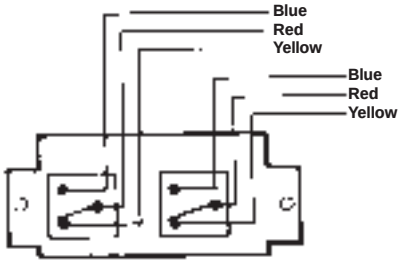
BASIC MONITOR STRIKE CIRCUIT



Power supply same voltage as lamps with sufficient current capabilities



Single
Switch shown in secure position



Double
Switches shown in secure position

FINISHES

US3, US4, US10, US10B, US26, US26D



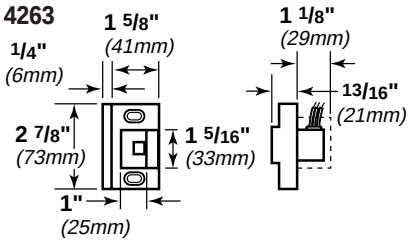
4263

4263

Monitor strike for use with rim or surface vertical rod exit devices. The 4263 is non-handed and features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is drop forged brass. The tripper selection (-T1 or -T3) is based upon the lock to be used with. See Chart below. Two 4263 strikes may be used on 4754 mullion.

COMPATIBILITY CHART	
Von Duprin	
22	T3
2227	T1
33/35	T1
3327/3527	T1
44	T1
55	T1
88	T1
8827	T1
98/99	T3
9827/9927	T1
Monarch	
Rim (3/49 (19mm) throw)	T3
Yale	
1500 (5/89 (16mm) throw)	T1

4263





4268T1 4582

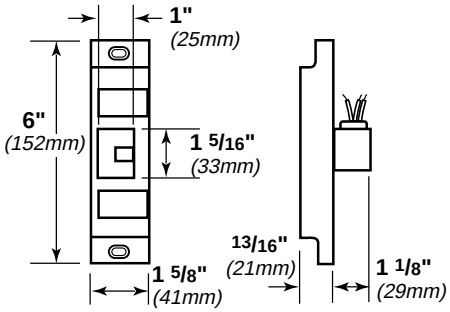
UL listed (GXHX R4504) fire exit hardware.

4268–T1 Single Doors Only - (Not for Mullions)

Monitor strike especially for rim fire devices. The 4268 features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is brass or cast stainless steel. The SPDT signal switch is rated at 24VDC @ 2 amps (resistive) and is actuated by a stainless steel tripper.

COMPATIBILITY CHART
22/22-F
33/35
88/88-F
98/99/98-F/99-F

4268-T1



4582

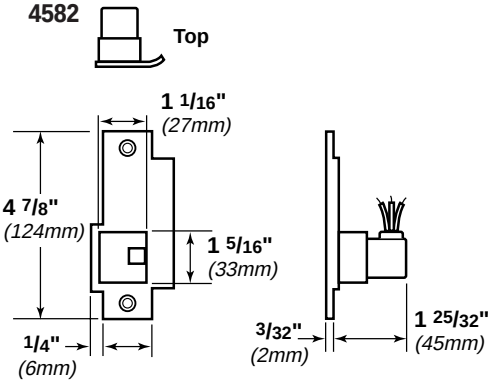
Monitor strike for use with mortise or cylindrical locks on single or pairs of doors with ANSI A115.3 frame cutout (frame modification required). The one piece faceplate and body is constructed of drop forged brass.

The tripper selection (-T1 or -T2) is based upon the lock to be used. See Chart below.

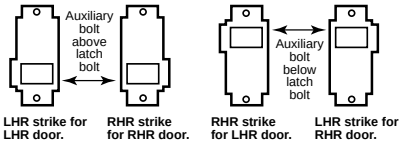
Note: When used with Von Duprin 7500 mortise lock, strike handing is opposite device handing.

COMPATIBILITY CHART		
Von Duprin 7500 ML		T1
Arrow	5/8″ *(16mm)* ML (LR)	T2
Corbin	5/8″ *(16mm)* ML (LR)	T2
Falcon	5/8″ *(16mm)* ML (LR)	T2
Russwin	5/8″ *(16mm)* ML (LR)	T2
	5000 ML (LR)	T2
Schlage	3/4″ *(19mm)* Cyl.	T2
	L90	T2
Yale	5/8″ *(16mm)* ML (LR)	T2

4582



Caution: proper selection of handing required.



4570–T1

For use on single or double door applications with ANSI A115.2 frame cutout (frame modification required). See Chart below.

4570–T1

For use on single or double door applications with ANSI A115.3 frame cutout (frame modification required). See Chart below.

COMPATIBILITY CHART		
Adams-Rite	4510	T1
	8400	T1
Arrow	1/29 (13mm) Cyl.	T1
Best	9/169 (14mm) Cyl.	T1
Corbin	5/89 (16mm) Cyl.	T1
Dexter	7/169 (11mm) Cyl.	T1
Falcon	1/29 (13mm) Cyl.	T1
	9/169 (14mm) Cyl.	T1
Kwikset	1/29 (13mm) Cyl.	T1
Lockwood	1/29 (13mm) Cyl.	T1
Precision	1040 Auto. Flush Bolt	T1★
Russwin	5/89 (16mm) Cyl.	T1
Sargent	1/29 (13mm) Cyl.	T1
Schlage	1/29 (13mm) Cyl.	T1
	5/89 (14mm) Cyl.	T1
Yale	1/29 (13mm) Cyl.	T1

★ Special template required.



4570-T1



4690-1-T2



4670-T1

UL listed (GXHX R4504) fire exit hardware, (4268T1 and 4582 only).

4690–T2

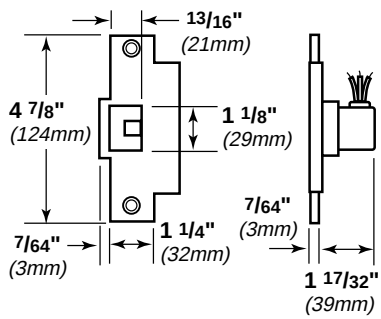
Use on wide stile double door applications.

4690–1–T2

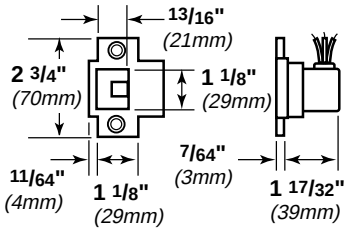
Use on narrow stile double door applications. (Contains two SPDT switches, one for each latchbolt).

COMPATIBILITY CHART			
	4690	**4690-1**	
Von Duprin	3347-F	—	T2
	3347	3347	T2
	9947	—	T2
	9947F	—	T2

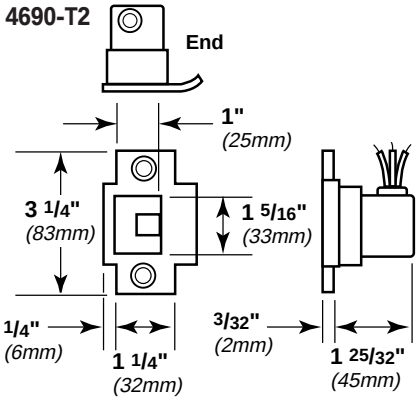
4570-T1 Top



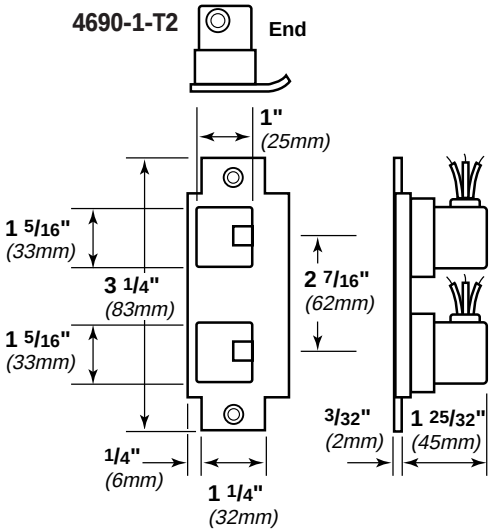
4670 Top



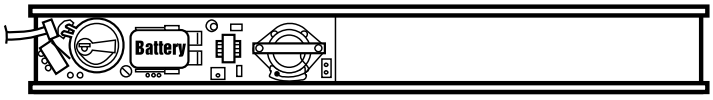
4690-T2 End



4690-1-T2 End



VON DUPRIN® ALK Exit Alarm Kit



The ALK battery alarm kit is a simple yet effective way to monitor the use of an exit device. While still a means of egress, the unit contains an internal horn, when the touchbar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated.

The key switch uses a standard 1¼" *(32mm)* mortise cylinder. The unit operates on one standard 9-volt transistor batteries. When batteries are weak the horn will emit an intermittent signal.

Alarm kits are available with a choice of two switch kits, RX or LX. RX monitors the touchpad is furnished standard, LX optional latchbolt monitoring is recommended for use with surface vertical rod exit devices. Specify ALK-LX.

The ALK can be used with all Von Duprin push pad devices. Choices include 22ALK, 33/99ALK and 35/98ALK.

The ALK includes "EMERGENCY EXIT ONLY. ALARM WILL SOUND" decal for application on door.

PS9 POWER SUPPLY
PS9 power supply provides 9VDC to power ALK alarm kits. The unit will power one or two alarm kits. Included is a 9 volt sealed battery for power backup in case of AC power failure. PS9 must be ordered separate.

Mullions

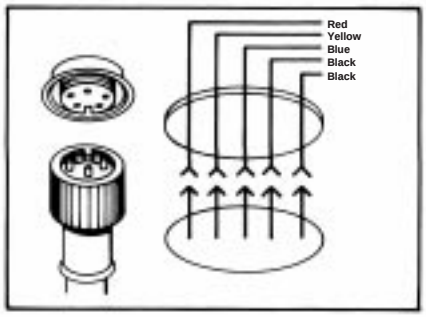
Electrified removable mullions are used with pairs of doors equipped with rim mounted exit devices.
Each includes an electric cable with five conductors wired to a twist-apart plug. The soffit fitting is supplied with a

pre-wired mating socket.

4754 — Prepared to accept two 4263 monitor strikes. Use with all Von Duprin rim panic devices.

Sizes for opening up to:
7´2˝ (2148mm), 8´2˝ *(2489mm)* or *10´2˝ (3099mm)*

WIRING

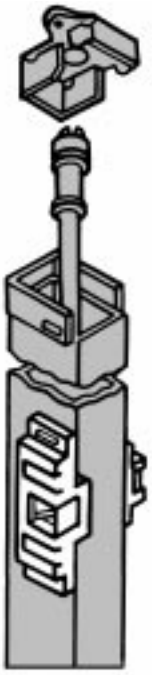


4854 — Prepared to accept 6111 electric strike on one side and 299 strike on other side.

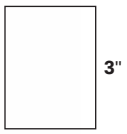
9854 — Prepared to accept 6111 electric strike on one side and 499F strike on other side. Can be used with Von Duprin rim fire exit hardware, 1½ hour rated doors up to 8809. UL listed GXHX R4504.

KR9854 keyed removable option available.

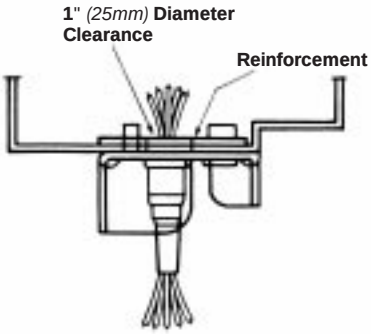
FINISHES
SP28 (Sprayed Aluminum)
SP313 (Sprayed Dark Duranodic)
Sprayed Black

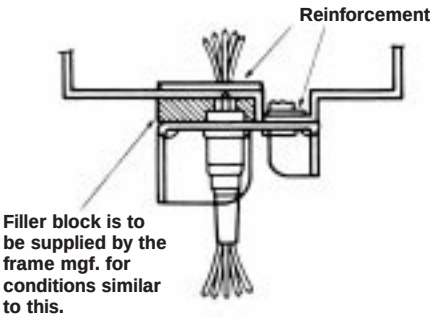


STEEL MULLION DIMENSIONS



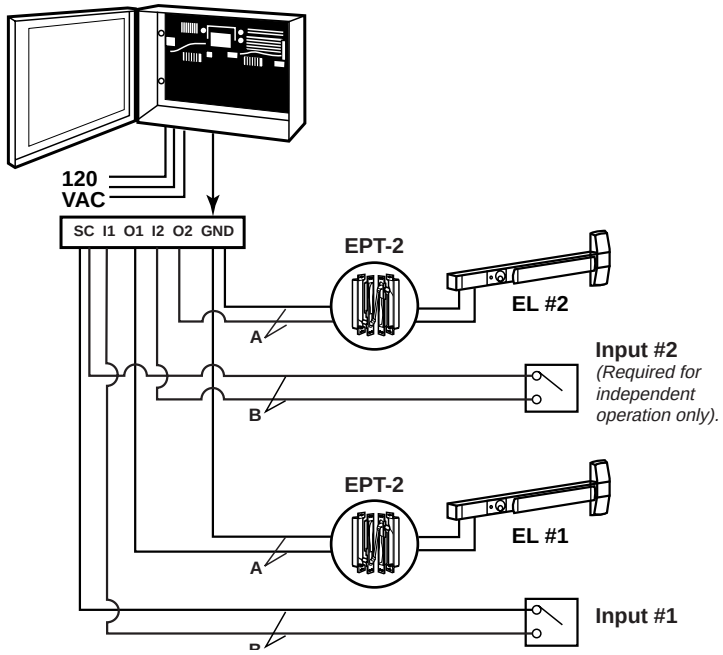
SOFFIT DETAILS





WIRE SIZE SELECTION

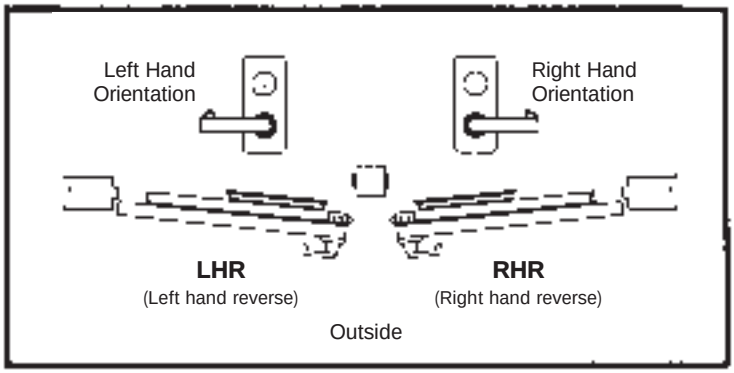
	Current requirement at 24 VDC			
	0–.5 Amp	.5–1 Amp	1–2 Amp	2–3 Amp
0-100 *(0-30)*	18	18	18	18
100-200 *(30-61)*	18	18	18	16
200-300 *(61-91)*	18	18	16	14
300-450 *(91-137)*	18	16	14	12
450-600 *(137-183)*	18	16	12	NR
600-900 *(183-274)*	16	14	NR	NR
900-1.200 *(274-366)*	14	12	NR	NR



WIRE SIZE SELECTION	EL Device w/EPT or Door Loop
0-100 *ft*	14 gauge
0-200 *ft*	12 gauge

WIRE SIZE SELECTION	EL Device w/Electric Hinge/Pivot
0-150 *ft*	12 gauge
0-75 *ft*	14 gauge

HANDING OF DOORS



VON DUPRIN®

DOOR CONTROL AND SECURITY HARDWARE

VON DUPRIN
2720 Tobey Drive,
Indianapolis, IN 46219
317-613-8944 phone
371-613-8302 fax
www.vonduprin.com
www.irsecurityandsafety.com

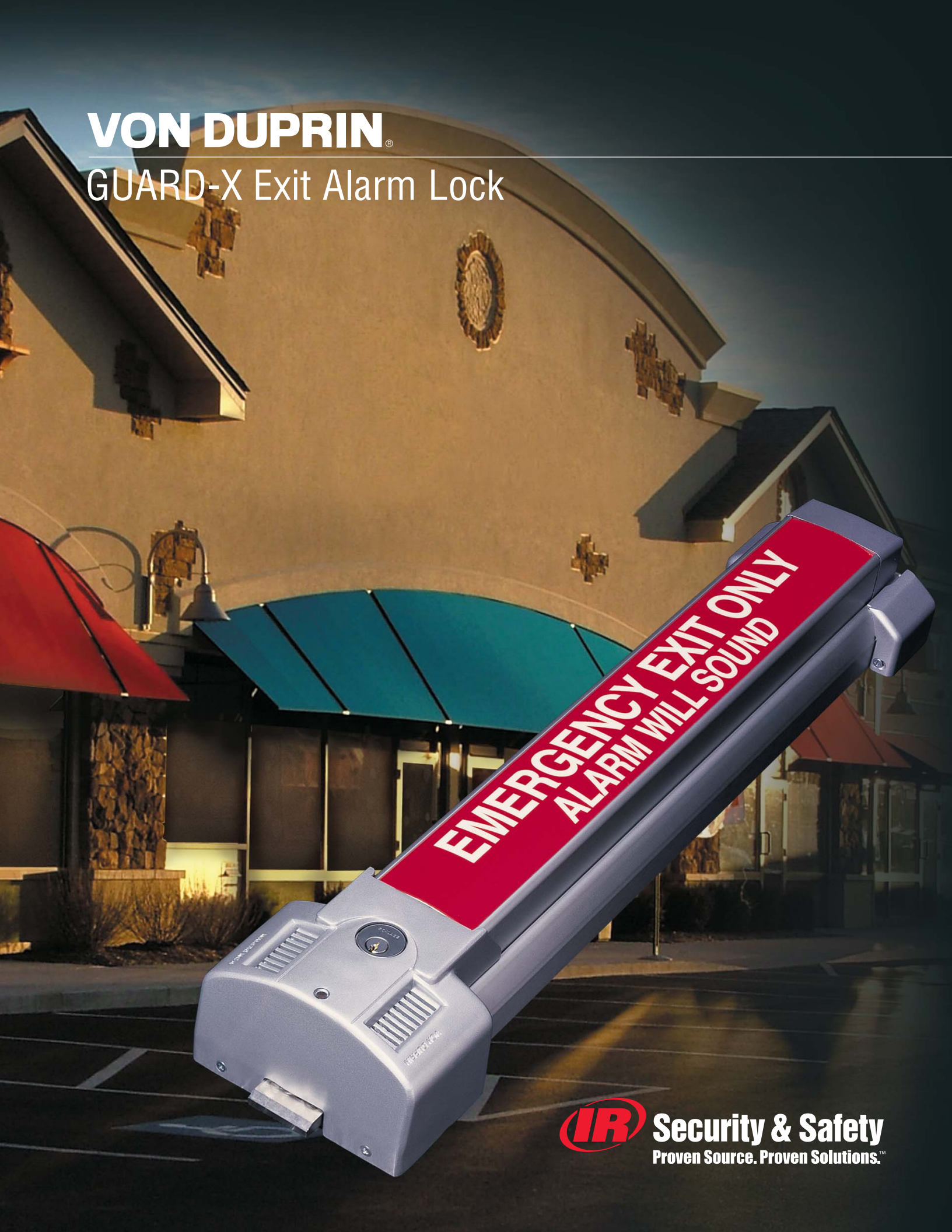
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Security & Safety
Proven Source. Proven Solutions.™

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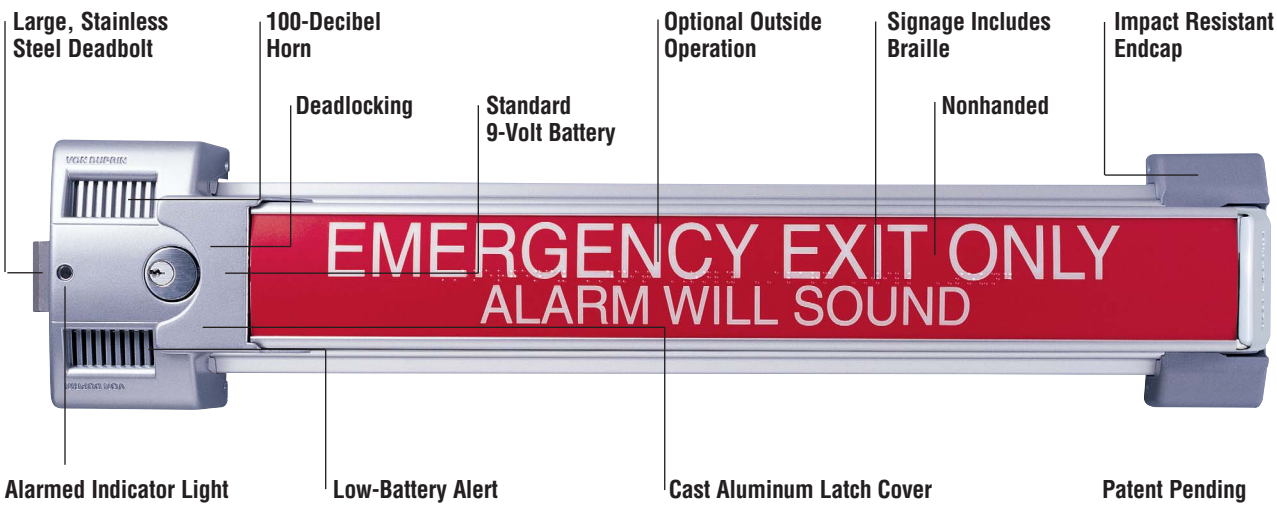
VON DUPRIN®

GUARD-X Exit Alarm Lock



Security & Safety
Proven Source. Proven Solutions.™

GUARD-X



GUARD-X provides secure, alarmed code-compliant protection for secondary exits.

GUARD-X exit alarm lock readily identifies the door on which it is mounted as an emergency exit and secures the opening against unauthorized use. It is ideal for deterring theft in restaurants and retail establishments such as: discount stores, grocery stores, drug stores, clothing stores and sporting goods stores.

Heavy-Duty Design

The new Series 2670 Exist Alarm Lock provides secure protection through a large stainless steel deadbolt, which is 2" x 1/2" *(51mm x 13mm)* and has over a 3/4" *(19mm)* throw. The engagement area into the strike is over 1-1/4 *(32mm)* square inches. The cast aluminum latch case protects the internal mechanism and resists tampering or vandalism from inside the door. This unit has been tested to withstand up to 1600 pounds of static load force against the door.

Security

GUARD-X does not allow relatching or resetting the alarm after an unauthorized exit, other than by an authorized person with a key. A 100-decibel alarm provides a clear, attention-getting warning for an unauthorized exit or attempted exit. The armed indicator light informs the owner that the alarm is armed, and an audible low-battery alert signals the owner to replace the battery when necessary.

Compliance

GUARD-X complies with the NFPA 101® Life Safety Code "the actuating portion of which extends across at least one half of the door leaf." It is UL listed for Panic Exit Hardware (UL305) including the ends of the crossbar or push pad shall curve, guard, or are otherwise designed to prevent catching on the clothing of persons during exit" for use on Emergency Exit applications, and tested in accordance to ANSI A156.3 Grade 1 Panic Hardware (250,000 cycles).

Installation takes just a few minutes with an easy-to-use adhesive back template. The product's nonhanded design means the installer can mount it for either hand by just removing and reversing the "Emergency Exit — Alarm Will Sound" sign built into the device. The standard warning sign is in English with Braille; French and Spanish are available.

Operation and Outside Trim

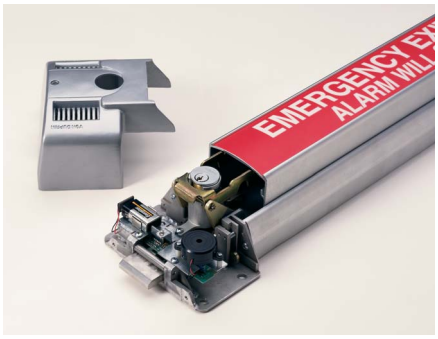
GUARD-X is armed and disarmed by key, using a standard rim cylinder. For owner convenience, it can be operated from the building exterior by a standard rim cylinder, so an authorized user can easily arm and disarm it to enter or exit the building when required. When using exterior operation, a pull trim is recommended, use 210DT or 230DT. Rim cylinders are not furnished and must be ordered separately.

A standard 9-volt battery powers the alarm. An exterior 9-volt power supply is available, Model PT-790, a 120VAC plug-in. When using the external power supply, the 9-volt battery functions as a battery backup during a power failure.

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Large 2″ x 1/2″ stainless steel deadbolt provides maximum security. A Standard rim cylinder is used to arm or disarm lock.



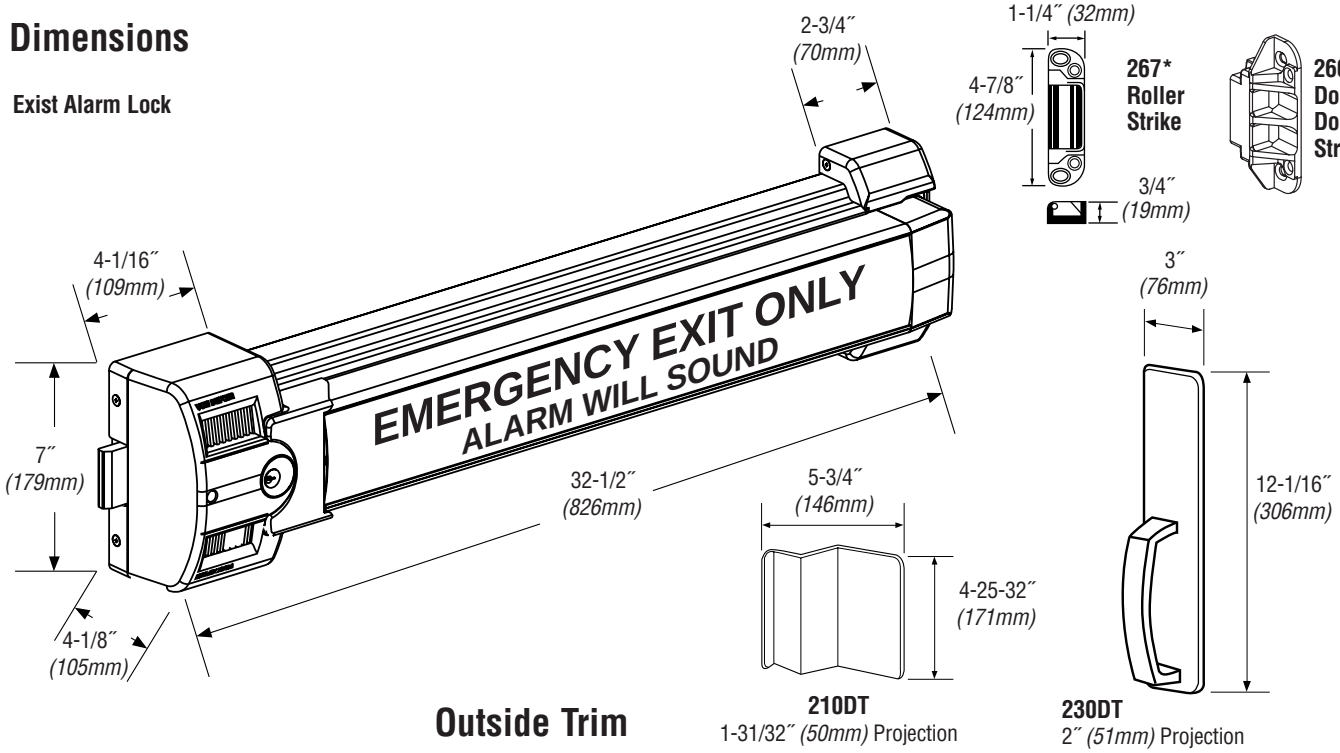
Heavy-duty construction provides long service life.



Three finishes available, including aluminum (US28), anodized duranodic dark bronze (313AN/710) and anodized black (315AN).

Dimensions

Exist Alarm Lock



Outside Trim

210DT
1-31/32″ *(50mm)* Projection

230DT
2″ *(51mm)* Projection

Touchbar height to finished floor	40″ *(1016mm)* at center
Door width range	36″ *(914mm)* to 48″ *(1219mm)*
Touchbar projection —	
neutral	4-1/8″ *(103mm)*
depressed	2-3/4″ *(70mm)*
Latch case housing	7″ *(179mm)* x 4-1/16″ *(103mm)* x 4-1/8″ *(105mm)*
Device length	32-1/2″ *(826mm)*

Finishes — US28 (Aluminum), 313AN (Duranodic Brown), 315AN (Black)

How-To Order

1. Model number 2670 (includes strike, screw pack and battery)
2. Finish — US28, 313AN or 315AN
3. French or Spanish sign, when required. English with Braille is standard.

Accessories

4. Sex nuts and bolts (6 #325) — when required
5. PT790 9-volt External Power Supply — when required
6. 210DT x 050140 or 230DT x 050140 — when required
7. 3216 Rim Cylinder, when required

*2609 double door strike available.

VON DUPRIN®

GUARD-X Exit Alarm Lock

International Offices

Canada / Latin America

IR Security & Safety
1076 Lakeshore Road East
Mississauga, Ontario,
L5E 1E4, Canada
(905) 403-1800
(905) 278-1413 FAX
(877) 590-4734

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IR Security & Safety
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Northpoint, Hong Kong
+(852) 2235-0600
+(852) 2565-1409 FAX

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IR Architectural Hardware Ltd.
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+64 (0) 9-829-0550
+64 (0) 9-829-0552 FAX
www.irarchitecturalhardware.co.nz

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Visit Von Duprin on the web

www.vonduprin.com

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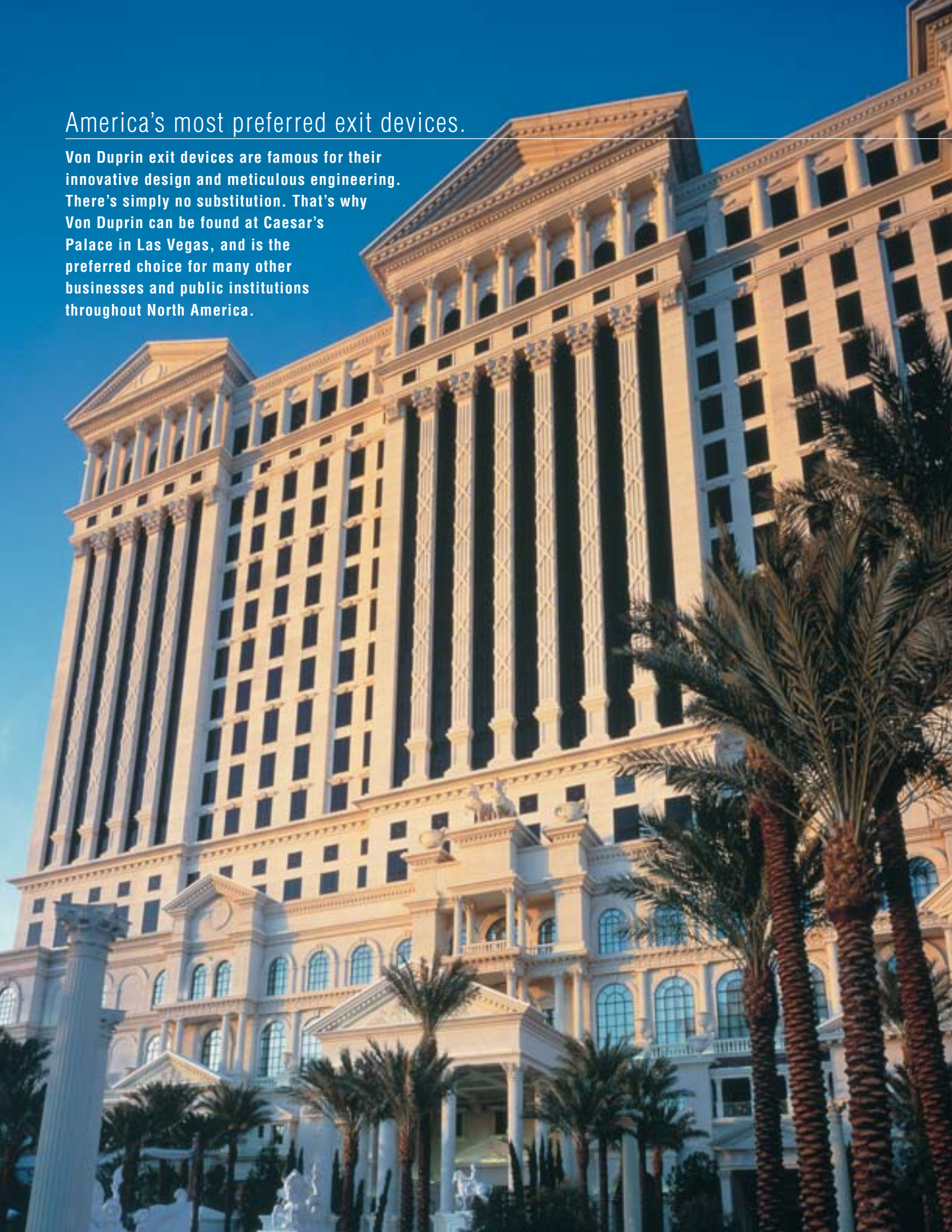
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VON DUPRIN®

INPACT™ 94 AND 95 Series Exit Device



Security & Safety



America's most preferred exit devices.

Von Duprin exit devices are famous for their innovative design and meticulous engineering. There's simply no substitution. That's why Von Duprin can be found at Caesar's Palace in Las Vegas, and is the preferred choice for many other businesses and public institutions throughout North America.



COOPERS ELEMENTARY SCHOOL,
ELM CITY, NC

THE UNQUESTIONED LEADER IN INNOVATION, DESIGN AND DURABILITY.

Von Duprin invented the exit device in 1908. Since that time, there have been many imitators, but no other true innovator. The unique, streamlined Von Duprin INPACT recessed exit device is a perfect example of how creative thinking and great engineering can turn a safety necessity into a stylishly understated fixture.

INPACT is fully integrated within a door and combines a clean, tasteful appearance with Von Duprin's unrivaled standards of durability and performance. The design is compatible with hollow metal doors, including doors manufactured by Steelcraft®, part of the IR Security & Safety product line.

GRACE UNDER PRESSURE.

Available in a variety of finishes, INPACT is UL® approved to meet the strictest building codes. The fact is, UL® testing sets an important standard for the industry. But at Von Duprin, our testing goes well beyond industry standards to make absolutely sure our exit devices will survive in the real world. For this reason, INPACT will withstand repeated abuse and continue to perform, even in the most demanding environments. You can be totally confident that every Von Duprin product you specify or install will exceed your expectations for reliable operation and long-lasting durability.



NASH HEALTH CARE SYSTEMS, NASH GENERAL HOSPITAL, ROCKY MOUNT, NC
Nash General Hospital is among a small percentage of hospitals nationally to receive the honor of Accreditation with Distinction.



THE FULL LINE OF INPACT RECESSED EXIT DEVICES FOR SINGLE AND DOUBLE DOOR APPLICATIONS.



INPACT's low profile design makes it the perfect application for healthcare facilities, schools, corporate campuses, theaters, hotels, stadiums and art museums.

The clean, versatile design blends with an infinite variety of decors. With its wide pushpad, operation is easy for everyone, including people with disabilities. Recessed in the door, INPACT maintains a low-profile which makes it ideal for corridor doors. Minimal projection provides more room for people and equipment to pass. And, when an object such as a cart or dolly collides with the device, the sloped endcaps deflect the object away from the door, protecting the device and the door.



Photograph of INPACT devices on Steelcraft Graintech™ steel doors.

All INPACT exit devices are as durable as they are beautiful. The heavy-duty construction, simple mechanical design and Von Duprin's legendary commitment to quality combine to ensure a long, trouble-free service life.

DESIGN

The streamlined, extruded aluminum pushpad is uniquely designed to exhibit grace under pressure. Built to absorb shock, it takes the wear and tear of even the most demanding high-traffic areas. The sloped, die-cast metal endcaps provide added support, protecting the device and the door against the heaviest impact. The nonhanded configuration simplifies installation and gives superior flexibility in the field.

CONSTRUCTION

Beneath the beautiful architectural design includes a number of durable mechanical components and characteristics. Compression springs are used throughout, and all internal components are coated with zinc dichromate to prevent corrosion. Latchbolts have a self-lubricating coating to reduce friction and wear. Concealed studs and through-bolts, from the inside, fasten the heavy-duty outside trim. Factory steel door prep makes installation simple and fast. Not available on wood doors.

DURABILITY & RELIABLE OPERATION

Devices are tested in accordance to ANSI/BHMA A156.3 Grade 1 by a BHMA certified testing laboratory. INPACT has exceeded one million cycles.



Factory steel door preparation makes installation simple and fast. Photograph of Graintech™ steel door by Steelcraft.



PUSHPAD DESIGN OPTIONS



94 Series - Smooth Pushpad



95 Series - Grooved Pushpad



US3 *Brass, Polished*



US26 *Chrome, Polished*



US28 *Aluminum, Anodized*



US4 *Brass, Satin*



US26D *Chrome, Satin*



313 *Duranodic Dark Bronze*



US10 *Bronze, Satin*

Von Duprin INPACT devices are available in seven attractive finishes to complement any job, as well as the option of a sleek, smooth pushpad and a unique, grooved pushpad. The durable die-cast aluminum endcaps are available in standard black and matching or contrasting powder coated finishes.

STANDARD TRIM

L



Lever LP373L*
Forged brass 1-3/8" (35mm) depth escutcheon. #06 lever is standard. Optional lever designs are available.

** Blank escutcheon "BE" available. Example: LP373L-BE.*

OPTIONAL TRIMS

DT



Dummy Pull 550DT
Heavy aluminum forged brackets with 10" (254mm) stainless steel pullbar.

TL



Thumbturn 376T
Forged brass 7/8" (22mm) escutcheon. It is often used with a 550DT pull trim.

Only available with concealed rod devices.

L x LP230L



Lever LP230L
Cast aluminum 3/4" (19mm) depth escutcheon. #06 lever is standard. #03 lever is optional.

STANDARD LEVER

#06 (Standard)



OPTIONAL LEVERS

#03



#07



#12



#17



Handed Lever

See dimensions page 12.



338



Top Latch



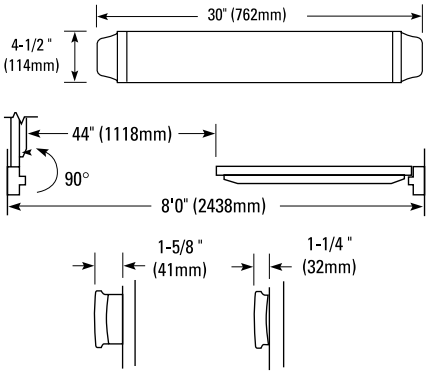
385A



Bottom Latch



DIMENSIONS:



Clear Width - meets 44" clear width requirements on corridor doors serving areas occupied or used by bed patients. Application uses a 2" (51mm) face frame and 1-11/16" (43mm) swing clear hinges.

STANDARD TRIM	NUMBER
Lever	LP373L*
OPTIONAL TRIMS	
Dummy Pull	550DT
Thumbturn	376T
Lever	LP230L
STANDARD LEVER	
	06
OPTIONAL LEVERS	
	03, 07, 12, 17

**Blank Escutcheon "BE" available. Example: LP373L-BE*

DEVICE OPTIONS

Electric latch retraction	pg. 13
Latchbolt monitoring	pg. 13
Less bottom rod	pg. 13

FIRE-RATED AND PANIC CONCEALED VERTICAL ROD DEVICES

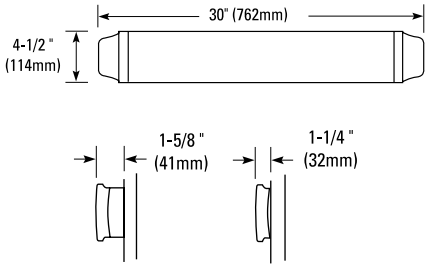
Models **Fire-Rated Models**	9447 and 9547 9447-F and 9547-F
Device Handing	Non-handed
Functions	See Trim Selection Chart on page 12
Finishes	See Finishes Chart on page 14
Styles	Smooth 94 Series and Grooved 95 Series
Pushpad	Extruded anodized aluminum
Endcaps	Die-cast aluminum, sloped design
Strikes	Standard 338 and 385A provided.
Latchbolt	5/8" (16mm) throw. Top and bottom latching are standard. (Optional LBR is available, with no need for floor strike.)
Deadlocking Latchbolt	Standard
Dogging Feature	Hex key dogging
Door Sizes	2'10" (864mm) to 4'0" (1219mm) width 10'0" (3048mm) maximum height 1-3/4" (44mm) thickness
Device Height	4-1/2" (114mm)
Device Length	30" (762mm)
Device Center Line to Finished Floor	39-5/8" (1006mm)
Projection	1-5/8" (41mm) neutral 1-1/4" (32mm) depressed
Fasteners	Included for surface mounting to recessed door prep and through bolting to trim.
ANSI Grade	Certified to ANSI/BHMA A156.3 Grade 1. Tested at one million cycles.
Concealed Vertical Rods	Two-piece adjustable rods, door 6'8" (2032mm) to 8'4" (2540mm). Can be adjusted by removing the latchside endcap.
Optional Extension Rod	Adjustable for doors 8'4" (2540mm) to 10'0" (3048mm).



575



DIMENSIONS:



STANDARD TRIM	NUMBER
Lever	LP373L*
OPTIONAL TRIMS	
Dummy Pull	550DT
Lever	LP230L
STANDARD LEVER	
	06
OPTIONAL LEVERS	
	03, 07, 12, 17

**Blank Escutcheon "BE" available. Example: LP373L-BE*

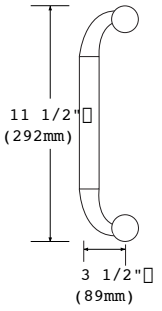
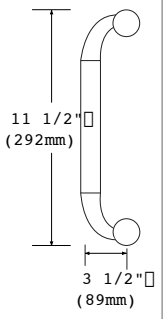
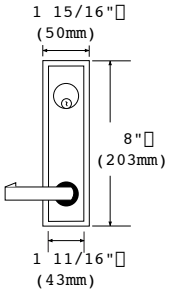
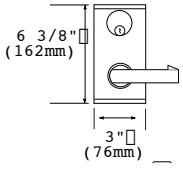
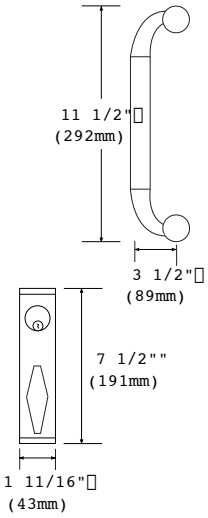
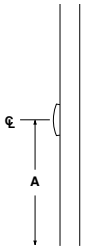
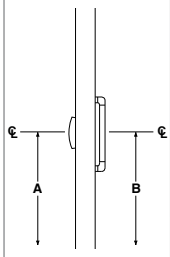
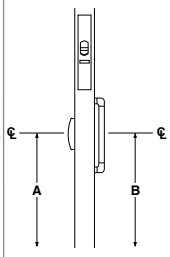
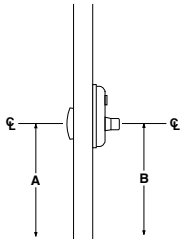
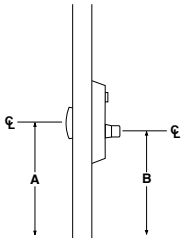
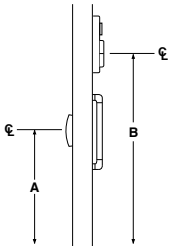
DEVICE OPTIONS

Electric latch retraction	pg. 13
Request to exit	pg. 13
Latchbolt monitoring	pg. 13

FIRE-RATED AND PANIC MORTISE LOCK DEVICES

Models **Fire-Rated Models**	9475 and 9575 9475-F and 9575-F
Device Handing	Non-handed
Functions	See Trim Selection Chart on page 12
Finishes	See Finishes Chart on page 14
Styles	Smooth 94 Series and Grooved 95 Series
Pushpad	Extruded anodized aluminum
Endcaps	Die-cast aluminum, sloped design
Strike	Standard 575
Latchbolt	3/4" anti-friction, field reversible
Deadlocking Latchbolt	Standard
Mortise Lock Center Line to Finished Floor	48-1/8" (1222mm)
Dogging Feature	Hex key dogging
Door Sizes	2'10" (864mm) to 4'0" (1219mm) width 10'0" (3048mm) maximum height 1-3/4" (44mm) thickness
Device Height	4-1/2" (114mm)
Device Length	30" (762mm)
Device Center Line to Finished Floor	39-5/8" (1006mm)
Projection	1-5/8" (41mm) neutral 1-1/4" (32mm) depressed
Fasteners	Included for surface mounting to recessed door prep and through bolting to trim.
ANSI Grade	Certified to ANSI/BHMA A156.3 Grade 1. Tested at one million cycles.

94/95 TRIM SELECTION

Function		01 Exit Only	02 Pull When Dogged	03 Key Retracts Latchbolt	08 Key Locks Lever	08 Key Locks Lever	11 Key Locks Thumbturn
Trim Number and Dimensions			550DT 	550DT x Cylinder 	LP373L 	LP230L 	550DTx376T 
Device/Trim Center Line To Finished Floor							
Projection			2-5/8"	2-5/8"	3-1/8"	2-5/8"	1-13/16" / 2-5/8"
Concealed Vertical Rod	Panic	9447EO	9447DT	—	9447L	9447L	9447TL
		9547EO	9547DT	—	9547L	9547L	9547TL
	Fire	9447EO-F	—	—	9447L-F	9447L-F	9447TL-F
		9547EO-F	—	—	9547L-F	9547L-F	9547TL-F
	Ctr. Line	39-5/8"	**A** 39-5/8"	—	**A** 39-5/8"	**A** 39-5/8"	**A** 39-5/8"
			B 39-5/8"	—	**B** 39-5/8"	**B** 38-5/8"	**B** 53-1/2"
Mortise Lock	Panic	9475EO	9475DT	9475NL	9475L	9475L	—
		9575EO	9575DT	9575NL	9575L	9575L	—
	Fire	9475EO-F	—	9475NL-F	9475L-F	9475L-F	—
		9575EO-F	—	9575NL-F	9575L-F	9575L-F	—
	Ctr. Line	39-5/8"	**A** 39-5/8"	**A** 39-5/8"	**A** 39-5/8"	**A** 39-5/8"	—
			B 39-5/8"	**B** 39-5/8"	**B** 39-5/8"	**B** 38-5/8"	—
Cylinder Type Required	Vert. Rod Dev.	—	—	—	Mortise*	Mortise*	Mortise*
	Mortise Dev.	—	—	Mortise*	Mortise*	Mortise*	—

**See page 13 for cylinder information.*

Electric Latch Retraction

The EL feature allows for the remote latch retraction of exit devices. A control station operator can flip a switch to retract the latchbolt and immediately change an exit door to push/pull operation. A powerful, continuous-duty solenoid retracts the latchbolt either for momentary unlocking or for extended periods of time. The EL feature is an alternative to manual dogging. EL devices are also useful with automatic door operators, and may be applied to fire-rated devices when under the control of an **automatic fire alarm system**. UL approved for Class II circuit applications. This feature does not include the power transfer from door to frame, nor the power supply or control operator.

Solenoid Specifications: Continuous-Duty 24 VDC. Current Inrush 16 Amps. Current Holding (450 milliamps) 0.5 Amps. To Order: Specify prefix EL.

Latchbolt Monitoring

The latchbolt monitor or (LX) feature gives an electronic signal when someone enters an opening from the trim side of the door. The device can then be connected to a security console or may be used as a single door alarm when used with a horn and power supply. The (LX) switch is located inside the device's pushpad on a concealed vertical rod device. For a mortise device, the switch is located inside the mortise lock.

Electrical Ratings: 0.5 Amp., 24 VDC. To Order: Specify prefix LX.

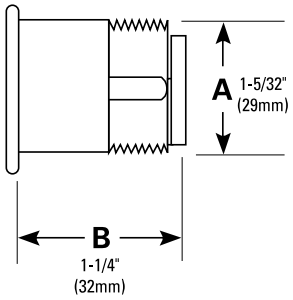
INPACT Accessories

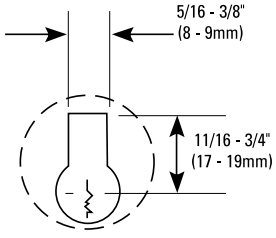
Cylinders are not furnished with device or trim and must be specified when ordering. Mortise lock exit devices and the LP373L, 376T and LP230L use mortise-type cylinders.





Mortise - 3215 (Schlage B502-191 cam)





Less Bottom Rod

The Less Bottom Rod (LBR) option is available for concealed vertical rod devices. In lieu of a bottom rod and latch, a spring-loaded auxiliary bolt is installed in the lower door edge. When exposed to heat, during a fire, the auxiliary latch releases, keeping the doors in alignment and closed. UL listed for 3 hours on double egress doors and for 90 minutes on doors swinging in the same direction. The LBR option is not recommended for exterior door openings or where security is critical.

Request to Exit

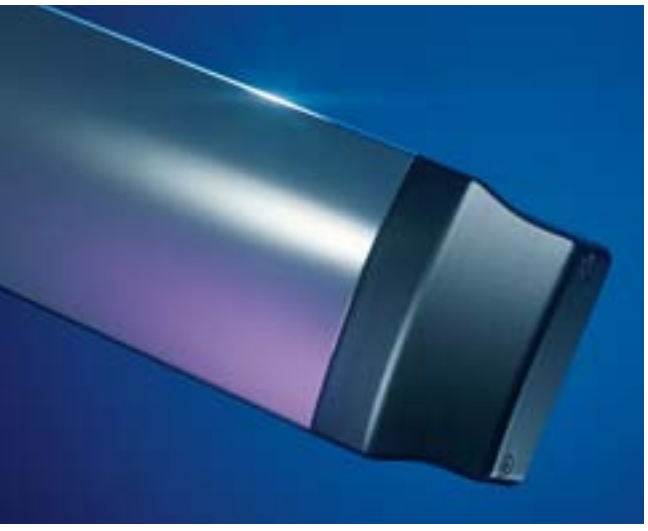
The pushpad monitor or (RX) feature gives an electronic signal when someone exits an opening from the device side of the door. The device can then be connected to a security console or may be used as a single door alarm when used with a horn and power supply. The (RX) feature is available only on mortise devices using the (NL) function. The (RX) switch is located inside the mortise device's pushpad.

Electrical Ratings: 0.5 Amp., 24 VDC. To Order: Specify prefix RX.

UL LISTED—FIRE EXIT HARDWARE LABEL/OPENING SIZE

		Double Doors	
Exit Device	**Single Door**	**Same Direction**	**Double Egress**
9475-F **9575-F**	3 Hour 4' x 10'	—	—
9447-F **9547-F**	—	90 Minute 8' x 10'	3 Hour 8' x 10'
9447LBR-F **9547LBR-F**	—	90 Minute 8' x 10'	3 Hour 8' x 10'

Consult your door manufacturer for maximum listed door height.



FINISHES	US NUMBER	BHMA NUMBER
Brass, Polished	US3	605
Brass, Satin	US4	606
Bronze, Satin	US10	612
Chrome, Polished	US26	625
Chrome, Satin	US26D	626
Aluminum, Anodized	US28	628
Duranodic Dark Bronze	313	710

NOMENCLATURE

EL 94 47 L BE F LBR US3 RHR

EL	Electric Latch Retraction
LX	Latchbolt Monitoring
RX	Request to Exit Switch
94	Series 94
95	Series 95
47	Concealed Vertical Rod (up to 10'0")
75	Mortise Lock Device
DT	Dummy Trim
EO	Exit Only
L	Lever Trim
TL	Thumbturn
BE	Blank Escutcheon
None	Panic Exit Hardware
F	Fire Exit Hardware
None	Top and Bottom Rod
LBR	Less Bottom Rod
Finish	See Finish Chart
Lever Handing	Specify Right-Hand–RHR or Left-Hand–LHR

How-To-Order Information



SINGLE DOOR: 9475 AND 9575

1. Specify model and trim selection.
   Examples: 9475L-F (Fire exit device, mortise lock, smooth pushpad, lever trim)
   9575DT (Panic device, mortise lock, grooved pushpad, dummy trim)
2. Specify finish (see Finishes Chart).
3. Handing required on lever trims. Specify RHR or LHR.
4. Options as desired.
   Example: EL prefix (Electric Latch Retraction) EL9475L-F x US26D x RHR

DOUBLE DOOR: 9447 AND 9547

1. Specify model and trim selection.
   Examples: 9447L-F (Fire exit device, concealed rod, smooth pushpad, lever trim)
   9547DT (Panic device, concealed rod, grooved pushpad, dummy trim)
2. Specify finish (see Finishes Chart).
3. Handing required on lever trims. Specify RHR or LHR.
4. Options as desired.
   Examples: LBR suffix (Less Bottom Rod) 9447-F-LBR x US3 x RHR
   EL prefix (Electric Latch Retraction) EL9547L-F x US26D x RHR

INPACT™ 94 AND 95 Series Exit Devices



Visit Von Duprin on the web

www.vonduprin.com

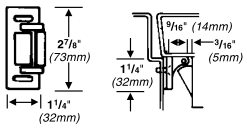
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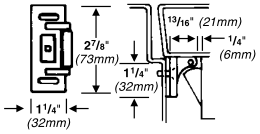
Strikes for rim devices

264



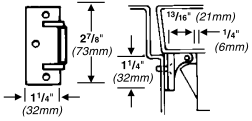
Projection 9/16" (14mm)

299



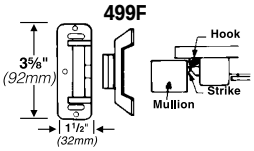
Projection 13/16" (21mm)

299F



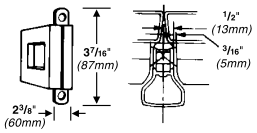
Projection 13/16" (21mm)

499F



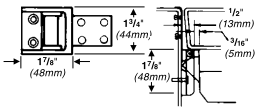
Projection 15/16" (24mm)

1408



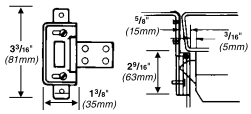
One per pair of doors

1439–Blade Stop



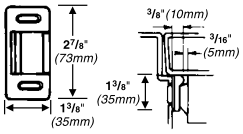
Projection 1/2" (13mm)

1410–Integral Stop



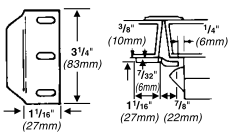
Projection 1/2" (13mm)

1606



Projection 3/8" (10mm)
Panic Devices Only

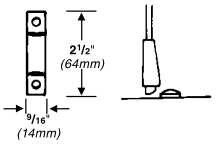
1609



- Requires Coordinator
- For Fire Rated Application, consult factory

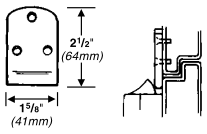
Strikes for vertical rod devices

248L-4



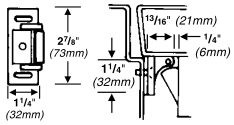
Projection 3/8" (10mm)

260U–Flush Transom Only



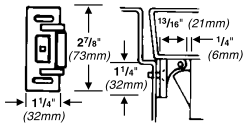
Projection 3/8" (10mm)
For Fire Rated Application, consult factory

299



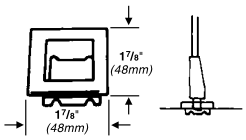
Projection 13/16" (21mm)

299F



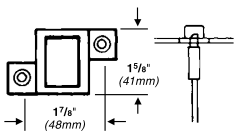
Projection 13/16" (21mm)

304L



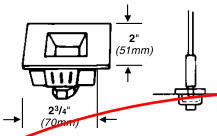
Mortise 13/16" (21mm)

338



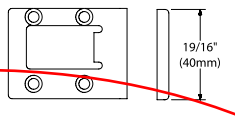
Mortise 5/8" (16mm)

385A



Mortise 2-1/2" (64mm)

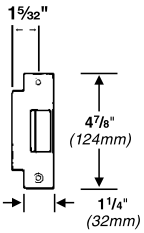
283



For use with WDC devices
when used with wood frames

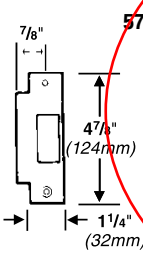
Strikes for mortise lock devices

575



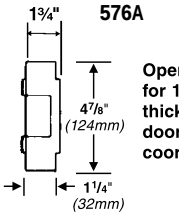
For use on 1 3/4" *(44mm)* or 2 1/4" *(57mm)* Single door and 2 1/4" *(57mm)* double door with coordinator.

575-2



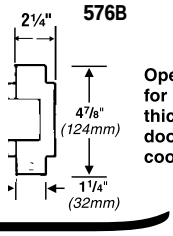
For use on 1 3/4" *(44mm)* thick double door with coordinator and astragal

576A



Open back strike for 1 3/4" *(44mm)* thick double doors without coordinator.

576B

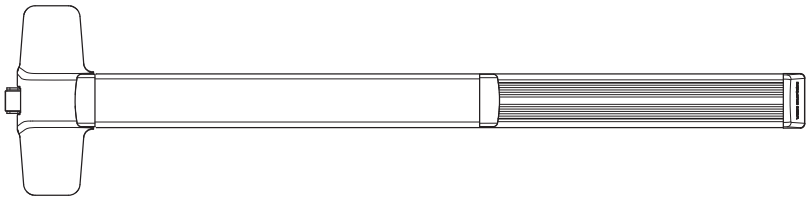


Open back strike for 2 1/4" *(57mm)* thick double doors without coordinator.

- Not for use with astragals
- Not for use on wood doors
- Acceptable for 90 minute pair of hollow metal doors

VON DUPRIN®

Quiet Electric Latch Retraction - QEL



About the product

The QEL option provides electronic control of an exit device and is ideally suited for environments where limited operational noise is desired. The QEL option allows for the electronic unlatching of exit devices for continuous push-pull operation and/or access control and can be activated through a building automation system, access control system or by a control system operator.

The device always provides mechanical egress but can also be tied to an access system to unlatch when a credential is presented or may be held unlatched (dogged) for extended periods to provide free entry. If manual dogging is also required, special center case dogging is available for rim devices, specify SD-QEL. The SD-QEL option is not available on the 9875 or 9975 devices.

QEL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an automatic fire alarm system.

Features and Benefits

- Quiet operation both mechanically and electrically
- On-board installation and troubleshooting diagnostics built into power supply and device
- Automatic calibration – automatically adjusts latch throw and pull
- Pushbar is pulled in electronically for quiter operation when dogged
- Vandal resistant – detects and responds to vandals
- Built-in time delay

System Components / Compatible Products

QEL is an option for 98/99 series (including XP) and 33a/35a Series devices.

The PS873 with the 871-2Q option card are required system components.

A single PS873 power supply will support up to four QEL devices.

The QEL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to Von Duprin catalog for information on EPT-2 power transfer and the PS873 power supply.

Specifications Compliance

- Devices are BHMA Certified to ANSI/BHMA A156.3 (2001) Grade 1 for Exit Devices
- Devices are UL and cUL Listed as "Panic Hardware" (UL 305) and as "Fire Exit Hardware" (UL 10C)
- The PS873 and 871-2Q Board are UL Listed as "Burglary-Resistant Electric Locking Mechanism Accessory" (UL 1034) for Class 2 Circuit Applications.
- The QEL Conversion Kit is UL Classified under "Accessories for Single-Point Locks and Latches and Fire Exit Hardware" (UL 10C)

To order, specify:

- Standard –– Use prefix QEL, *example QEL99L*.
- Special Center Case Dogging –– Use prefix SD-QEL, *example SD-QEL99L*.

About Ingersoll Rand Security Technologies

Ingersoll Rand Security Technologies is part of Ingersoll Rand Company Limited a global provider of products and services that make environments safe secure and productive. Von Duprin is among its industry leading brands with an unparalleled reputation for quality and innovation. Celebrating its 100th year, Von Duprin is credited with introducing the first exit device in 1908 and today continues to provide the industry's best exit devices and trim.

Ingersoll Rand
Security Technologies

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VON DUPRIN®

Introducing a quieter way to make an entrance.

The QEL exit device from Von Duprin.

In theaters and libraries, museums, offices, and hospitals, electrified exit hardware provides reliable access control. But some environments require both access control and extreme quiet. The Von Duprin Quiet Electrified Latch (QEL) exit device is a sleek, reliable device that reduces operational noise down to a whisper. Designed with advanced sensing electronics, the QEL is the next generation of quiet, dependable latch retraction from Von Duprin.

Ingersoll Rand
Security Technologies

Designed for easier, quieter performance.











- The quietest operation both mechanically and electrically
- On-board installation and troubleshooting diagnostics built into power supply and device
- Automatic calibration – adjusts automatically to installation variations
- Pushbar is pulled in electronically to give true electrical dogging functionality
- Retry mode if device does not pull on the first try
- Vandal resistant – detects and responds to vandals
- Built-in time delay

Hospital nurseries and patient rooms, libraries, museums and theaters require electrified hardware that operates at whisper-quiet levels. The new Von Duprin QEL couples the reliability and high performance Von Duprin is known for, with quieter operation that won't disrupt meetings, performances or study. In fact, compared to the competition, Von Duprin offers the quietest overall operation when operated mechanically and electrically.

A choice of finishes and trim.

With a wide range of trim options and finishes, the QEL will fit easily into your building's style and design.



605
Bright Brass



606
Satin Brass



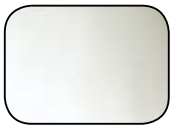
612
Satin Bronze



625
Bright Chrome



626
Satin Chrome



628
Anodized
Aluminum



710
Anodized
Duranodic
(Dark Bronze)

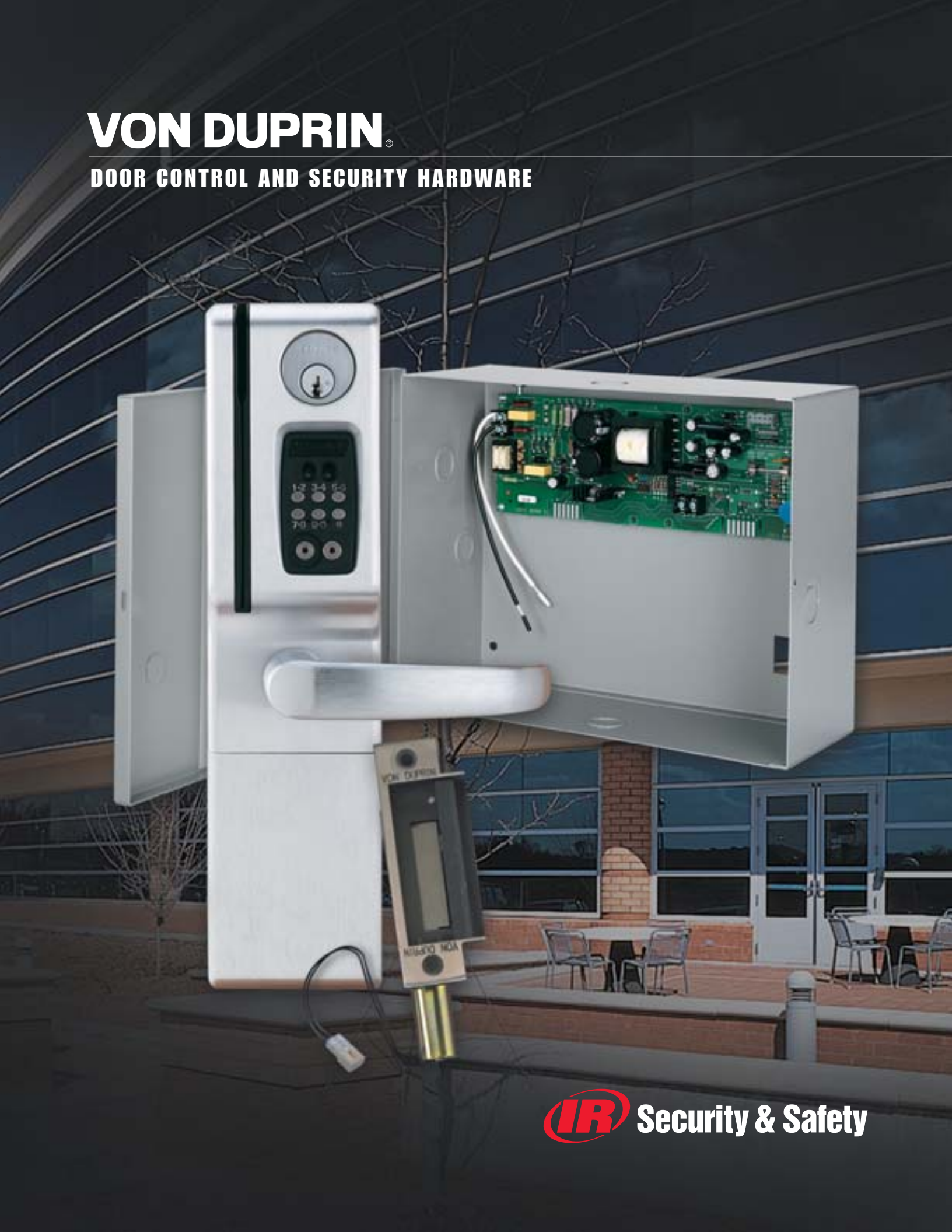
To find out more about the QEL contact your local Ingersoll Rand Security and Safety Consultant or visit **www.vonduprin.com/qel**

Ingersoll Rand
Security Technologies

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VON DUPRIN®

DOOR CONTROL AND SECURITY HARDWARE



Security & Safety

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VON DUPRIN® Series 6000 Electric Strikes

Electric Strikes provide remote release of a locked door. They allow the door to be opened without retracting the latchbolt. This occurs by the releasing of the electric strike lip (sometimes called keeper or gate). When the door closes the beveled latchbolt rides over the lip and falls into the electric strike pocket.

VON DUPRIN SERIES 6000 ELECTRIC STRIKES

Von Duprin is the leading manufacturer of premium, heavy-duty electric strikes known for their reliability, durability and security.

Versatility

- Non-handed
- Furnished 24VDC standard with 12VDC and AC operation optional. 16V solenoids available.
- Furnished fail secure (FSE) standard, with fail safe (FS) optional.
- Strike box is adjustable to compensate for any misalignment of the door or frame.
- Two piece plug connectors are furnished for ease of installation and for removal during strike servicing.

Durability

Developed with Von Duprin's high standards and engineering expertise.

- Heavy-duty stainless steel construction.
- Tested to over 250,000 cycles.
- 1500 lbs. holding strength.
- 70 lbs. impact strength.

To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on page 13. When using a lockset not listed or when retrofitting a strike to an existing application, consult Von Duprin for application assistance.

OPTIONS

AC Operation

SO12 and SO24 are rectifier kits to convert AC voltage to operate the DC solenoids. These kits are field installable and plug in-line to solenoid.

DS and DS-LC — Dual Switch Monitoring (Factory Installed Only)

Dual switch monitoring option has two SPDT contacts, one switch monitors the tripper which is depressed when the latchbolt is inserted into the strike pocket. The second switch monitors the condition of the strike lip, open or closed and locked.

DS is standard, rated 24V, operating range from 2 ampere to 50 milliampere.

DS-LC low volt gold contact switches for use on applications associated with computer control and monitoring, rated 24V, operating range 50 milliampere or below.

Fail Secure — FSE

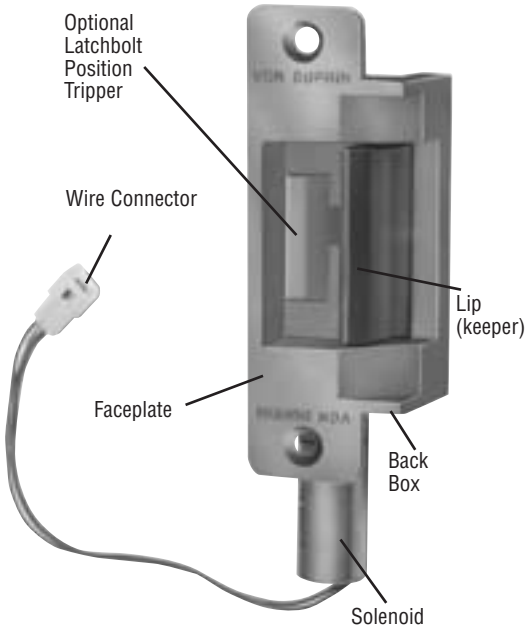
FSE — FAIL-SECURE electric strikes require power to be applied to unlock the strike lip. On loss of power, the strike is locked. Field convertible with parts.

Fail Safe — FS

FS — FAIL-SAFE electric strikes require power to be applied to lock the strike lip. On loss of power, the strike is unlocked. Building codes prohibit the use of fail-safe strikes on labeled openings. Field convertible with parts.

Entry Buzzer — EB

EB — Entry buzzer is available for use with fail-secure strikes. Installed in the frame and in parallel with the circuit, the buzzer will sound when the strike is unlocked.



UL LISTED

UL Listed Burglary-Resistant and Electric Strike for fire doors and frames. A label for single doors and B label for double doors. Strikes meet the requirements of ANSI 156.5, Grade 1, 1992.

TO ORDER, SPECIFY

1. Model number.
2. FS (fail safe, when required).
3. DS or DS-LC (dual switch, when required).
4. Voltage 12VDC or 24VDC
   For 16V Solenoids order separately.
5. SO12 or SO24 (required when using AC)
6. Finish: US3, US4, US10, US10B, US32, US32D.
7. EB (Entry buzzer), FSE only (when required).

Note: Information listed is for use on new applications. On retrofit applications, modification of the frame preparation may be required, consult factory.

VON DUPRIN® 6111, 6112, 6113 Electric Strikes

6111
Electric strike for use with rim exit devices on single doors or double doors with mullion applications (hollow metal, aluminum or wood). Designed to replace Von Duprin 3031. Specify if using with 55 rim devices.

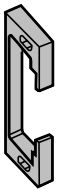
6112
Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood). Designed to replace Folger Adam 310-4, minor frame prep modification required.

6113
Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood), *½˝ (13mm)* stop or greater. Designed to replace Von Duprin 3011 and 3021. Specify if using with 55 rim devices.

FEATURES
- Stainless Steel Construction
- Accepts *¾˝ (19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)

6111/6113 ELECTRIC STRIKE BLADE STOP SHIM 010055-XX



Use on cased opening or blade stop frame. ½" (13mm) aluminum, not for fire door application.



6111



6112



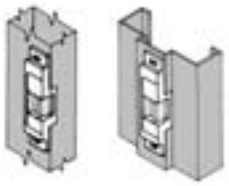
6113

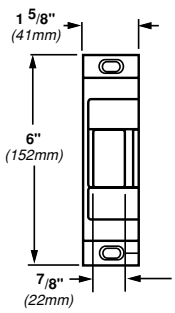
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

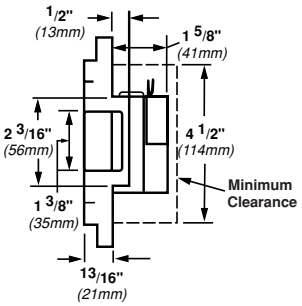
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59311
Listing applies to Von Duprin rim devices.

DIMENSIONS AND CONFIGURATIONS

6111

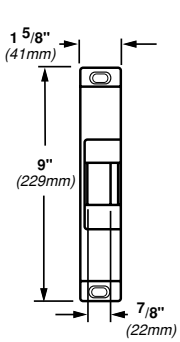


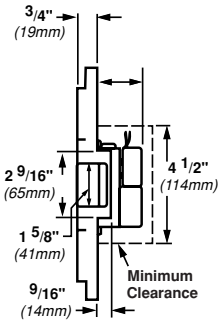




6112

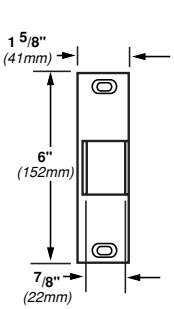


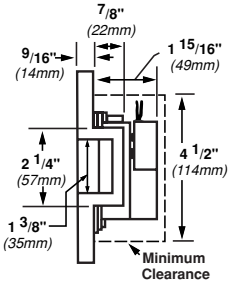




6113







VON DUPRIN® 6114, 6121 Electric Strikes

6114
Electric strike for use with rim night latches having up to ¾″ *(19mm)* bolt throw. Replace Folger Adam 310-5.

6121
Electric strike for use with rim exit devices on double door applications, without mullion (hollow metal, aluminum or wood). Strike mounts on inactive leaf. Replace Folger Adam 310-4-100.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)



6114



6121

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

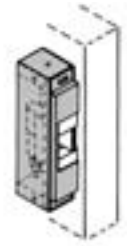
UL listed Burglary Resistant CVXY. ANSI E59371

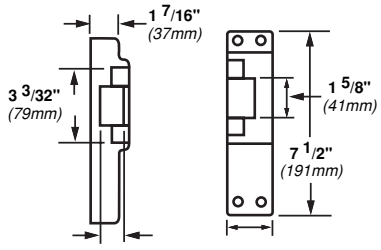
DIMENSIONS AND CONFIGURATIONS

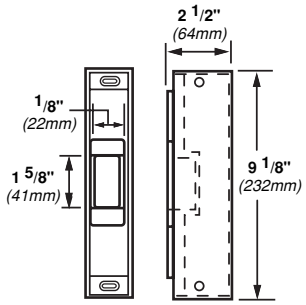
6114



6121







VON DUPRIN® 6210, 6211, 6211AL, 6211WF Electric Strikes

6210
Electric strike for use with mortise locks **without deadbolt** on single door, hollow metal frame applications and using ANSI prep at standard height. Strike pocket inserts are provided to accommodate different manufacturers deadlocking trigger locations.

6211
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal frame applications. Designed to replace Von Duprin 3140 or Folger Adam 712.

6211AL
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, aluminum frame applications. Designed to replace Folger Adam 722.

6211WF
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications. Designed to replace Folger Adam 732.

FEATURES
- Stainless Steel Construction
- Accepts ¾" *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)



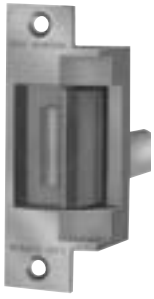
6210



6211



6211AL



6211WF

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

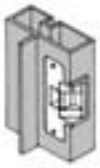
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

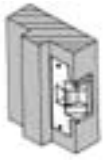
DIMENSIONS AND CONFIGURATIONS

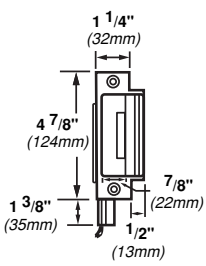
6210 **6211** **6211AL** **6211WF**

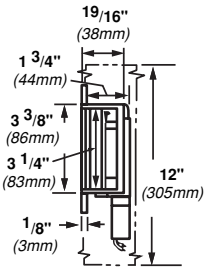


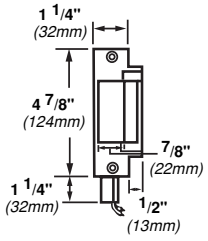


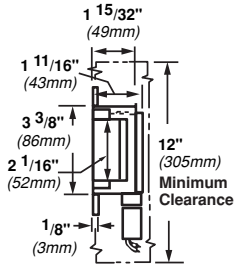


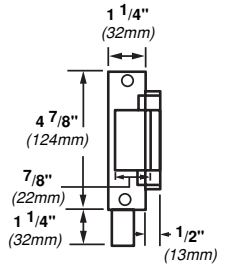


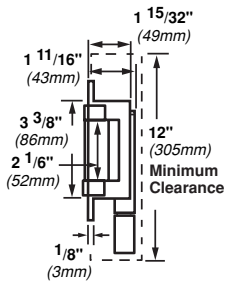


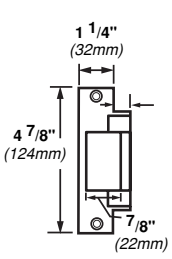


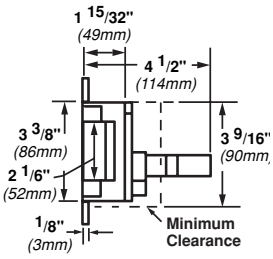












VON DUPRIN® 6212, 6212WF Electric Strikes

6212
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications.
Fits modified ANSI 115.2 cutout.
Designed to replace Von Duprin 3146.

6212WF
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications.

Note: Strike pocket insert is furnished for use with Von Duprin 7500 mortise lock.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)

Strike mounting tabs are furnished for use with modified ANSI 115.2 cutout. Tab can be machine screw mounted or welded in place.


6212


6212WF

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

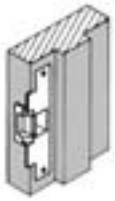
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

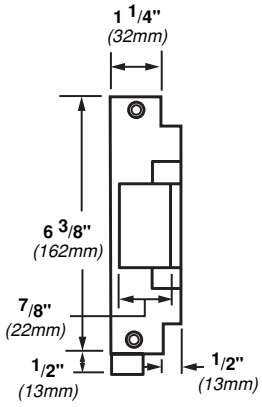
DIMENSIONS AND CONFIGURATIONS

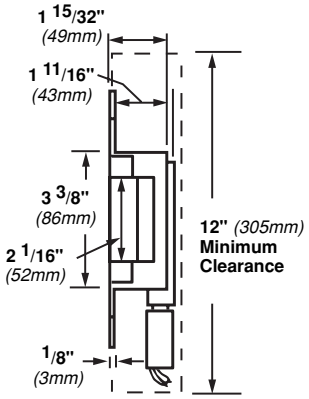
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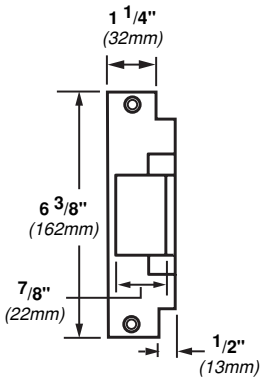


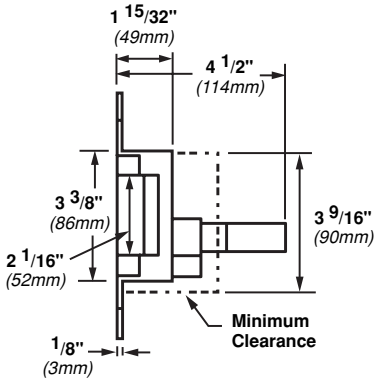
6212WF











VON DUPRIN® 6213, 6214, 6215, 6216 Electric Strikes

6213
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications (includes wood frame on retrofit application). Designed to replace Von Duprin 3041, 3042, 3061 and 3062.

6214
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2¾.

6215
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2.

6216
Electric strike for use with mortise locks **with deadbolt**, 1″ *(25mm)* throw, on single door, hollow metal, aluminum or wood frame applications. Deadbolt must be manually operated. Designed to replace Folger Adam 310-3-1.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33


6213


6214

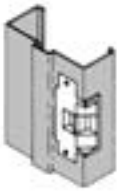

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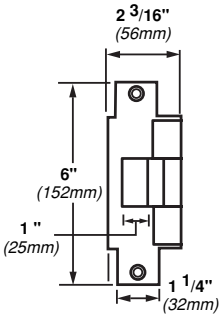

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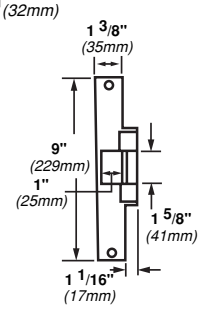
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

DIMENSIONS AND CONFIGURATIONS

6213

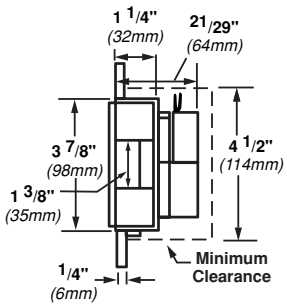


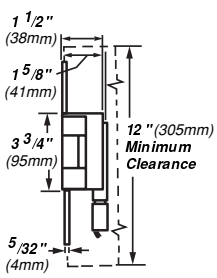




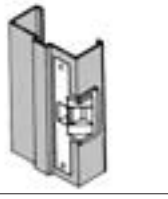
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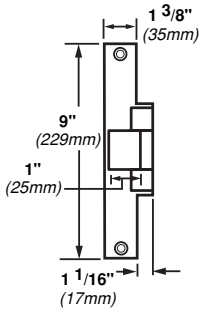


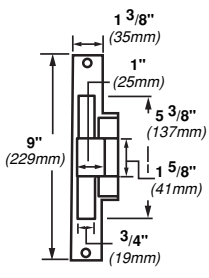




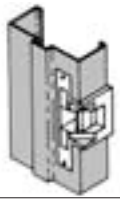
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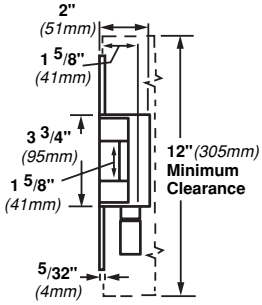


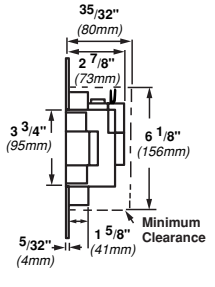




6216







VON DUPRIN® 6221, 6222, 6225 Electric Strikes

6221
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. 4¾″ *(120mm)* minimum stile required. For a concealed vertical rod and mortise device combination, specify "A" backbox. Designed to replace Von Duprin 3071 and 3072.

6222
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-23/4 OB.

6225
Open back electric strike for use with mortise locks without deadbolt or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2 OB.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- EB (Entry Buzzer)

Dual Monitor Switches (DS or DS-LC) are not available on open back strikes.



6221



6222



6225

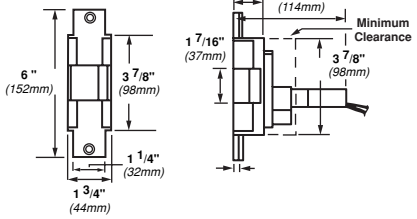
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

DIMENSIONS AND CONFIGURATIONS

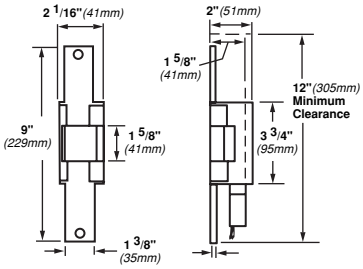
6221





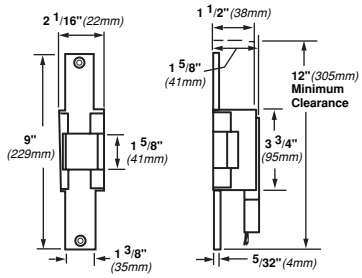
6222





6225





VON DUPRIN® 6223, 6224, 6224AL, 6226 Electrical Strikes

6223
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. 4¾″ *(120mm)* minimum stile required. For a concealed vertical rod and mortise device combination, specify "A" backbox. Designed to replace Von Duprin 3091 and 3092.

6224
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2¾. Not for wood applications.

6224AL
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick aluminum double door applications. Designed to replace Folger Adam 310-2RF.

6226
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2.
Not for wood applications.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)







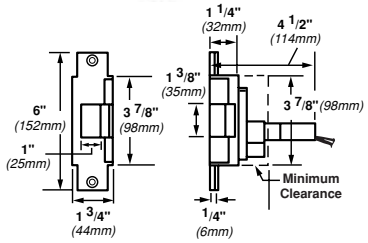


SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

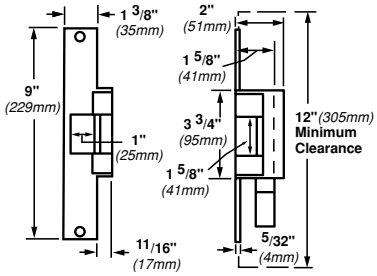
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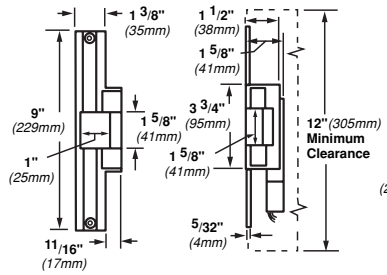
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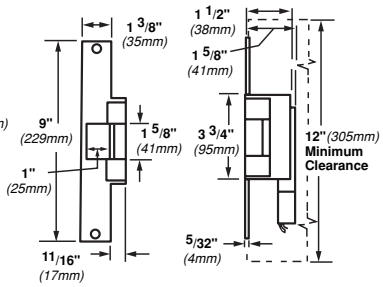
6224AL





6226





VON DUPRIN® 5100 Electric Strike

5100
The Von Duprin 5100 Electric Strike has been designed and manufactured to meet the needs of locksmiths and security professionals. This easy-to-install electric strike was created for medium duty applications, specifically to control traffic flow through interior and exterior openings in retail and commercial environments. And because it's the Von Duprin brand, you know that you can depend on the product quality and performance.

VERSATILITY
Fewer products to inventory and more value for your money.

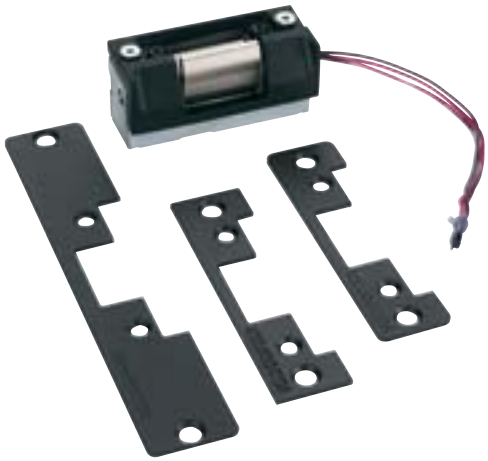
- Three faceplates included for hollow metal, wood or aluminum frames.
- Internal 12/24 dual-voltage solenoid.
- Adjustable keeper.
- Fail-safe/fail-secure selectability.

CONVENIENCE
The right parts in the box means getting the job done right the first time, every time.

- Reduce labor expense.
- Fewer return trips to the job site.

DURABILITY
Developed with Von Duprin's high standards and engineering expertise.

- Heavy-duty construction.
- Tamper resistant design.
- Tested to over one million cycles.
- 1000 lbs. holding strength.
- 70 lbs. impact strength.

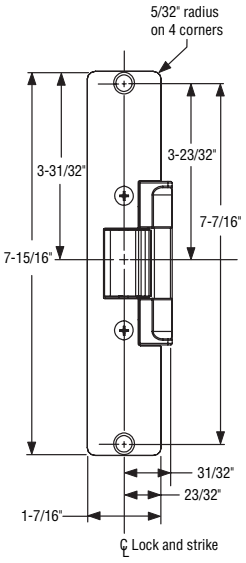


FEATURES
- Three faceplates standard in every box
- 12/24 dual-voltage
- Fail-safe/fail-secure
- Adjustable keeper
- Internal solenoid
- Non-handed
- Backbox depth of 1 11/16"
- Keeper depth of ½"
- Mounting tabs
- Retrofit kit
- Illustrated installation instructions
- Tamper resistant
- 1 year electrical product warranty
- Continuous duty operation
- Heavy duty construction

APPLICATIONS
- Cylindrical locks
- Aluminum dead latch

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	32	128
Power (watts)	4.5	4.5
Current (amps)	.38	.19

All specs ± 10% @ 77°F/25°C
ANSI/BHMA 156.5 Grade 1 (1992)
UL 1034 Burglary Listing



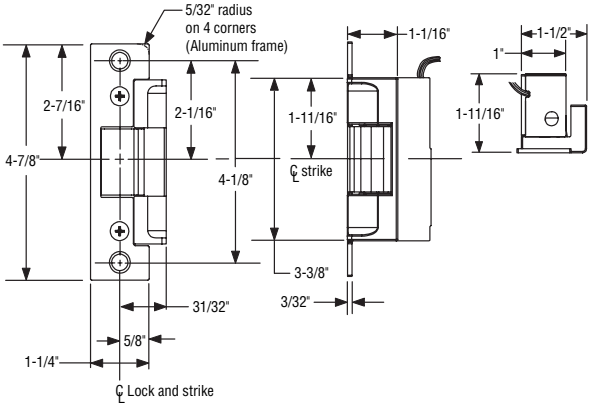


Chart 1

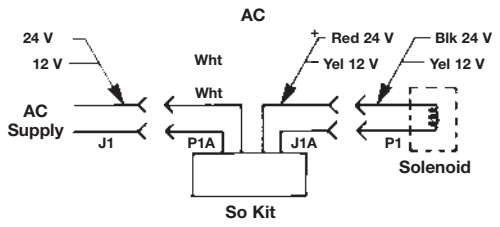
RIM EXIT DEVICE COMPATIBILITY 6111, 6112, 6113 & 6121 Strikes	
Manufacturer	**Device (panic/fire)**
Von Duprin	22, 33A, 35A, *55, 88, 98, 99
Magnokrom	Rim
Monarch**	11-R, XX-R, 18-R, 19-R
Precision	810, 1100***
Sargent	2800, 6500, 6800, 8500, 8800, 9500, 9800***, 9898
Yale	1500, 7000, 7200

* Strike must be modified, specify when using with a 55 rim device.
** Deadlocking feature will not properly function, consult factory.
***Panic only.

Chart 2

MORTISE LOCK COMPATIBILITY 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes	
Manufacturer	**Mortise #**
Von Duprin	7500
Adams Rite	4510, 4710
Baldwin	6000
Best	24H, 30H
Corbin	9000
Falcon	M2300, M2500, M2600 M3300, M3500, M3600
Precision	Mortise
Russwin	Mortise
Sargent	7700, 8100, 9000
Schlage	L9000, K30, K40, K50, K60
Yale	7030, 7130, 8600, 8700

Note: Von Duprin cannot guarantee compatibility as other manufacturer's designs may change without notice.



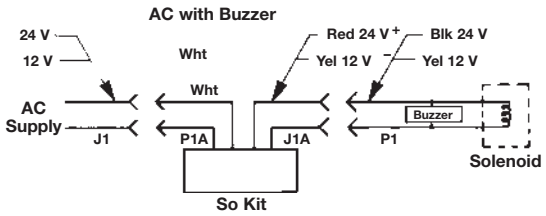


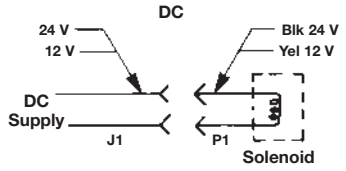
Chart 3

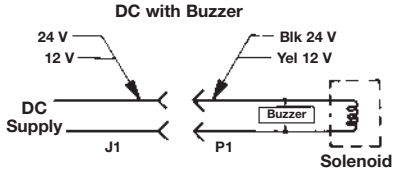
CYLINDRICAL LOCK COMPATIBILITY 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes	
Manufacturer	**Cylindrical**
Baldwin	½″ – ¾″ (13mm – 19mm)
Best	⅜″ – ¾″ (10mm – 19mm)
Corbin	½″ – ¾″ (13mm – 19mm)
Falcon	½″ – ¾″ (13mm – 19mm)
Russwin	½″ – ¾″ (13mm – 19mm)
Sargent	½″ – ¾″ (13mm – 19mm)
Schlage	⅜″ – ¾″ (10mm – 19mm)
Yale	½″ – ¾″ (13mm – 19mm)

Note: Signalling may not function when using 3⁄8" (10mm) throw bolt. Deadlocking cannot be guaranteed with all locks.

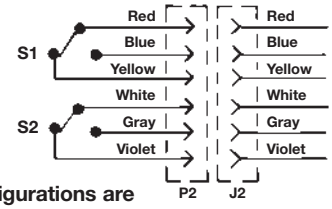
Chart 4

MORTISE LOCK AND 6210 COMPATIBILITY	
Von Duprin	7500
Best	30H
Corbin/Russwin	ML2200, 5000, 9000
Falcon	M100, M200, M300, M400, M500, M600
Sargent	7700, 8100 (Not 7800/8200)
Schlage	L9000
Yale	8700





Optional DS (FSE Shown)
Wiring shown with strike locked and monitor tripper depressed



Different wiring configurations are used depending on Backbox type and FS or FSE.

CROSS REFERENCE

Name	Strike/Lock Mounting	# Doors	Frame Material (SGL Dr) Door Material (DBL Dr)	Faceplate Length	Drop In Replaces Von Duprin:	Drop In Replaces Folger Adam:
6111	Rim Device	Single[1]	All	6″	3031	
6112	Rim Device	Single	All	9″		310-4[4]
6113	Rim Device	Single	All	6″	3011, 3021	
6114	Rim Nightlatch	Single	All	7″		310-5[5]
6121	Rim Device	Double-Closed Back	All	9″		310-4-100[5]
6210	Mortise	Single	HM/Alu	4⅞″		
6211	Mortise or Cylindrical	Single	HM/Alu	4⅞″	3140	712
6211AL	Mortise or Cylindrical	Single	Aluminum	4⅞″		722
6211WF	Mortise or Cylindrical	Single	Wood	4⅞″		732[6]
6212	Mortise or Cylindrical	Single	HM/Alu	6⅜″	3146	
6212WF	Mortise or Cylindrical	Single	Wood	6⅜″		
6213	Mortise or Cylindrical	Single	All[2]	6″	3041, 42, 61, 62	
6214	Mortise or Cylindrical	Single	All[3]	9″		310-2 3/4
6215	Mortise or Cylindrical	Single	All[3]	9″		310-2
6216	Mortise and Deadbolt	Single	HM/Alu	9″		310-3-1
6221	Mortise or Cylindrical	Double-Open Back	All	6″	3071, 72	
6222	Mortise or Cylindrical	Double-Open Back	HM/Alu	9″		310-2 3/4 OB
6223	Mortise or Cylindrical	Double-Closed Back	All	6″	3091, 3092	
6224	Mortise or Cylindrical	Double-Closed Back	HM/Alu	9″		310-2 3/4
6224AL	Mortise or Cylindrical	Double-Closed Back	Aluminum	9″		310-2 RF
6225	Mortise or Cylindrical	Double-Open Back	HM/Alu	9″		310-2 OB
6226	Mortise or Cylindrical	Double-Closed Back	HM/Alu	9″		310-2

[1]Includes double door with mullion.
[2]Recommended on wood frames only if drop in replacement is needed for 3041, 42, 61, 62 on wood frames. Otherwise use 6211WF.
[3]Recommended on wood frames only if drop in replacement is needed for 310-2 3/4, 310-2 on wood frames. Otherwise use 6211WF.
[4]Strike lip area cutout is slightly larger than Folger Adam.
[5]Surface applied strike. Mounting hole locations different from Folger Adam.
[6]Wood frame horizontal solenoid location differs from Folger Adam. May require frame prep modification when retrofitting.

FINISHES

US Number	BHMA Number	Description	Von Duprin Number
US3	—	Plated Polished Brass on Stainless Steel	85
US4	—	Plated Dull Brass on Stainless Steel	84
US10	639	Plated Dull Bronze on Stainless Steel	06
US10B	640	Plated Dark Bronze on Stainless Steel	86
US32	629	Stainless Steel, Polished	31
US32D	630	Stainless Steel, Satin	32

WIRE SIZE SELECTION

Current requirement at 24VDC

Length of wire run (in feet)	0-.5 Amp	.5-1 Amp	1-2 Amp	2-3 Amp
0-100	18	18	18	18
100-200	18	18	18	16
200-300	18	18	16	14
300-450	18	16	14	12
450-600	18	16	12	NR
600-900	16	14	NR	NR
900-1200	14	12	NR	NR

NR — Not recommended

VON DUPRIN® E996L Electrified Breakaway™ Lever Trim

E996L electrified Breakaway lever trim provides remote locking and unlocking capabilities while incorporating the patented Breakaway trim design.

The 24VDC solenoid can be energized from a distant controller, thus allowing access control of the opening. The control of stairwells in high-rise buildings is a common application for this trim.

When electrically unlocked the unit operates as a normal lever trim. When electrically locked, the lever feels locked, but when more than 35 pounds of torque pressure is applied, the Breakaway lever feature engages.

The E996L is provided standard in a fail safe (FS) condition, but can be field converted to a fail secure (FSE) where allowed. The trim can be ordered with a device, added to an existing 98/99 series device application, or a conversion kit can be added to an existing 996L Breakaway lever trim. On new construction applications, the E996L trim will require less door prep.

The E996L is available with a blank escutcheon (BE) function, or with a cylinder for night latch function.

The E996L electrified trim replaces the current "E" electric feature on 98/99 series rim devices. Consult factory for requirements.

To Order, Specify:

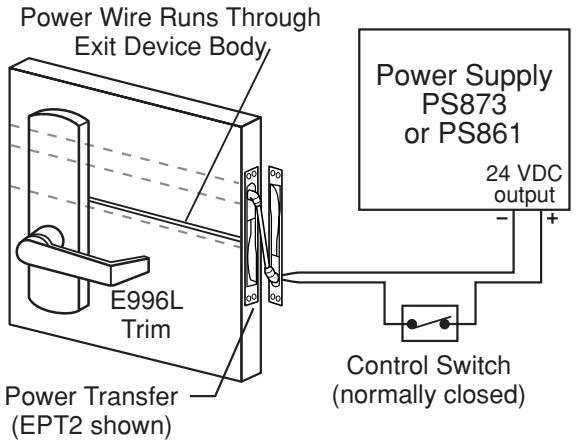
1. Use "E" prefix, example E996L.
   When ordering with device specify trim series with "E" prefix, example 9927L-BE 3´ US26D E996.
2. Device type, R/V (rim/surface or concealed vertical rod) or M (mortise).
3. RHR is furnished standard if not specified.
   Field reversible.
4. Lever style (06 lever is furnished standard).
5. Finish: US3, US4, US10, US10B, SP313, US26, US26D, SPBLK, US15



SPECIFICATIONS
Solenoid – Continuous Duty 24VDC
Solenoid Draw – 0.22 amp

E996L ELECTRICAL WIRING

- Power input for E996L is 24VDC
- Two wires on trim are non-polarized (18 AWG minimum)



LEVER DESIGN OPTIONS



#01 **#02** **#03** **#05** **#06 Standard**



#07 **#12 Handed** **#16** **#17** **#18**

EL feature provides remote latch retraction ability to exit devices. The feature is available with 33A, 35A, 94, 95, 98 and 99 series rim, mortise and vertical rod devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit only or latched door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt for momentary unlocking, or for extended periods of time, in lieu of manual dogging.

There are three dogging options available with the EL feature.

- EL - electric latch retraction with no manual dogging.
- HD-EL – electric latch retraction with manual hex key dogging.
- SD-EL – electric latch retraction with special center case cylinder dogging (not available on the 33A/35A series or 98/9975 devices).

EL devices are also useful with automatic door operators, and may be applied to fire-rated devices when under the control of an **automatic fire alarm system**.

UL approved for Class II circuit applications.

The PS873 with the 871-2 is the minimum option card required. Other option cards are available for other functions, see PS873 power supply on page 28 for additional information.

The EL feature does not include the power transfer from door to frame or the power supply or control operator. Refer to page 29 for the EPT-2 electric power transfer, and to page 28 for the PS-873 power supply.

See page 34 for wire size selection.

Retro-fit kits available to add the EL feature to non-EL devices.

To Order, Specify:

Prefix EL standard
HD-EL hex key dogging
SD-EL special center case dogging

Example HD-EL99L

Solenoid Resistance - New Style 1987 and after
GRN-YEL 1.2-2 OHMS
GRN-ORN 16-150 OHMS
GRN-ORN 45-55 OHMS (Inpact 94/95 only)



Rim device shown — Refer to 33A/35A, 98/99 or 94/95 series catalog for complete product information, mounting styles, outside trim, finishes, etc.

Minimum Door Width:

3´ *(914mm)* device – 2´6˝ *(762mm)*
4´ *(1219mm)* device – 3´0˝ *(914mm)*

Actual device length will vary depending on device type, strike, stop height, single or double door, etc.

UL listed FVSR SA163 Panic Hardware and/or GXHX R4504(N) Fire Exit Hardware. Consult device catalog for fire rated models.

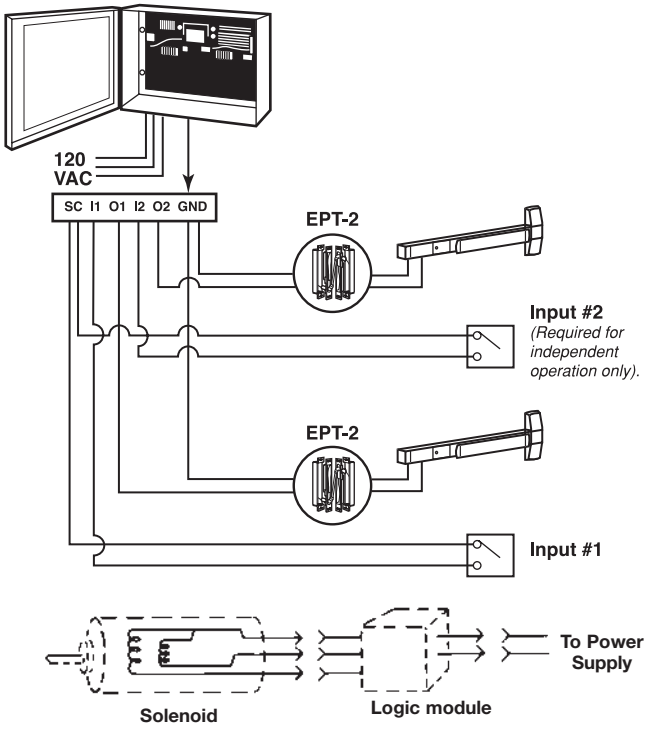


Supplied with 3´ (914mm) Cable at the hinge side of door.

SPECIFICATIONS	
Solenoid	
Continuous Duty	24VDC
Current Inrush (300 milliseconds)	16 amperes
Current Holding (33A/35A + 98/99)	0.3 ampere
Current Holding (Inpact)	0.5 ampere

Popular EL Application

Power Supply PS873-2
Electric Power Transfer EPT-2 or EPT-10



RX (request to exit) signal switch feature is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar. **See Low Current option for computer operated system applications.**

RX2 (double request to exit) features 2 RX switches.

LX (latchbolt monitoring) signal switch monitors both egress and access of an opening. When the latchbolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latchbolt position. **See Low Current option for computer operated system applications.**

LC (low current) option is available for RX and LX switches. **(Most commonly used in computer operated monitoring systems.)** The RX2 is not available in low current.

Signal Switches are available on 22, 33A, 35A, 55, 88, 98, 99 series devices. The low current version is not available with the 55 and 88 series devices.

The INPACT 94/95 series devices are only available with the LX switch option.

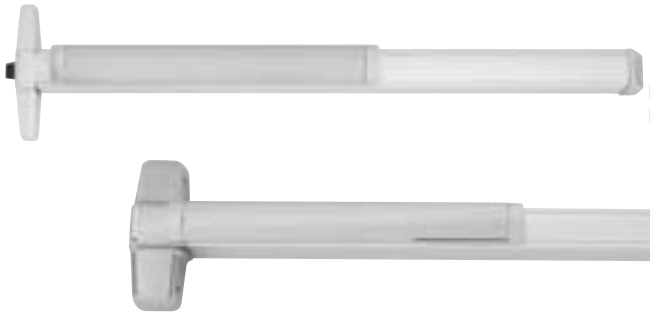
The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring the signal from the frame to the door.

Signal Switches can be used in combination with other electrical functions (EL, E).

- RX or RX2 may be combined with the E (electric unlocking) mortise lock device.
- For latchbolt monitoring on a mortise lock device, specify a SS7500 lock.
- LX and RX switches can be combined. Example: LX-RX99L.
- LX, RX or RX2 switches can be used in combination with EL (electric latch retraction) option.

RX, RX2 and LX switches are available for factory or field installation.

RX and LX switches should not be used to control a load, but as a signaling switch.



LX33A/LX35A
RX33A/RX35A

LX98/LX99
RX98/RX99

Rim device shown — Refer to 33A/35A or 98/99 series catalog for complete product information, mounting styles, outside trim, finishes, etc.

To Order, Specify:

For Factory Installed:

Prefix:	RX	Request to Exit
	RX2	Double Request to Exit
	LX	Latchbolt Monitoring
	LXRX	Latchbolt Monitoring/Request to Exit Combination
	RXLC	Low Current Request to Exit
	LXLC	Low Current Latchbolt Monitoring
	LXRXLC	Low Current Latchbolt Monitoring/Request to Exit Combination

Example: RX99L

For Field Installed:

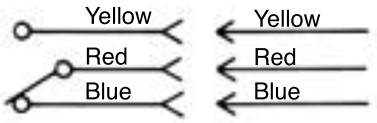
1. Specify switch option (RX, LX, RX-LC, LX-LC).
2. Specify "field".
3. For LX, specify device size 3′ or 4′.
4. For LX, specify if used with EL (electric latch retraction) option.
5. To convert an existing RX option to RX2, specify RX-AUX.

Example: LX 3′ Field

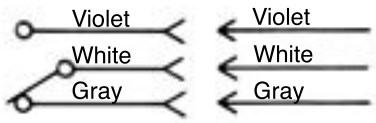
SPECIFICATIONS
RX or LX:
Switch rated 0.5 amperes @ 24VAC/DC resistive
Low Current RX or LX
Switch rated 0.05 amperes @ 24VAC/DC resistive

UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.

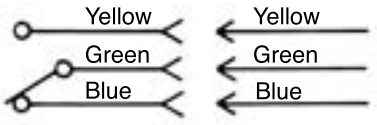
RX Wiring



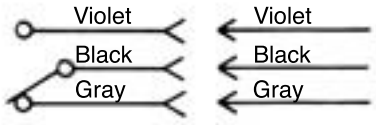
LX Wiring



RX-LC Wiring



LX-LC Wiring



VON DUPRIN® Signal Switch SS

SS signal switch feature is used to signal the unauthorized use of an opening. Available on the 33A/35A and 98/99 series devices, these devices are equipped with two internal SPDT (single pole double throw) switches. One switch monitors both the touch bar and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1¼″ *(32mm)* mortise cylinder (cylinder not furnished) for alarm "bypass" (momentary switch — not time delay).

The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Push pad reads:

"EMERGENCY EXIT ONLY - PUSH TO OPEN AND SOUND ALARM." Push pad is only available in US32D finish with red-silk screened lettering.

SS Mortise Lock devices are furnished with signal switches in the device and the **SS7500 Mortise Lock,** totaling four switches.

The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signaling functions to monitor latch bolt operation and trim locking function.

See page 34 for wire size selection.

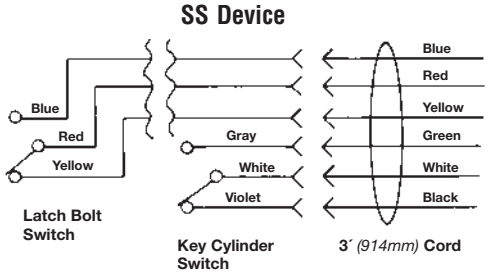
To Order, Specify:

1. Prefix SS (signal switch)
2. Specify handing RHR or LHR

Example SS99L RHR



Supplied with 3′ (914mm) Cable at the hinge side of door.





SS33A/SS35A



SS98/SS99

Rim device shown — Refer to 33A/35A or 98/99 series catalog for complete product information, mounting styles, outside trim, finishes, etc.

UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.

Minimum Door Width:

3′ *(914mm)* device – 2′6″ *(762mm)*
4′ *(1219mm)* device – 3′0″ *(914mm)*

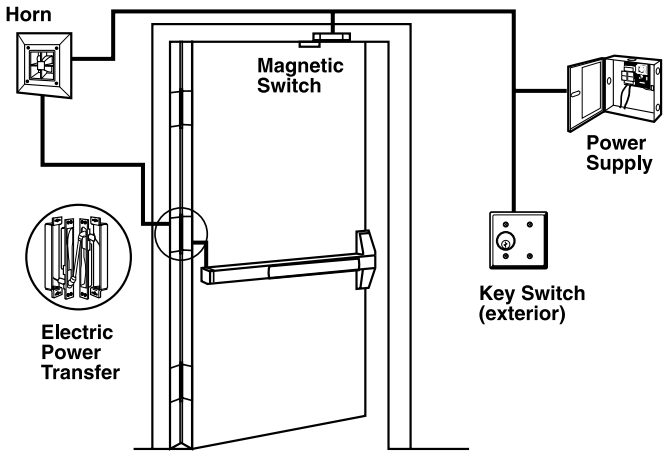
Actual device length will vary depending on device type, strike, stop height, single or double door, etc.

SPECIFICATIONS

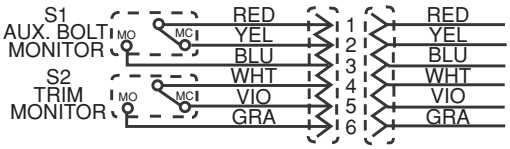
Each switch rated 0.5 ampere
24VDC Restrictive

Popular SS Application

Unauthorized use of this opening will activate the local horn. The key switch permits inhibiting this system for authorized entry.



SS 7500 Mortise Lock



Note: Wiring shown with aux. bolt depressed (door closed) & trim locked.

RX330 and RX350 bar features an active push pad with monitoring switch or "request to exit" switch, used to inhibit alarms for authorized exiting. The 330 grooved outer case and the 350 smooth outer case are designed as companion units for series 33A, 35A, 98 and 99 exit devices.

The RX switch option is also available on 55DU and 88DU crossbars, and are designed as companion units for series 55 and 88 exit devices.

The internal SPDT switch should not be used to control a load, but as a signaling switch.

Minimum Door Openings:

3´ (914mm) *2´6˝ (762mm)* to *3´ (914mm)*
4´ (1219mm) *3´1˝ (940mm)* to *4´ (1219mm)*

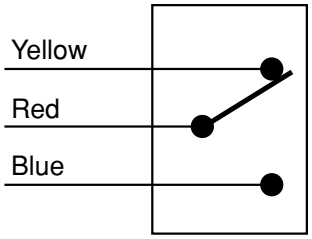
To Order, Specify:

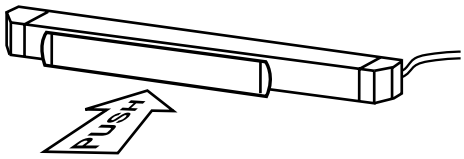
1. Prefix series 330 or 350 with "RX". Example, RX330
2. Size 3´ or 4´ (3´ supplied standard if size not specified)
3. Finish: US3, US4, US10, US28, US26, US26D, 313AN, 315AN

RX330



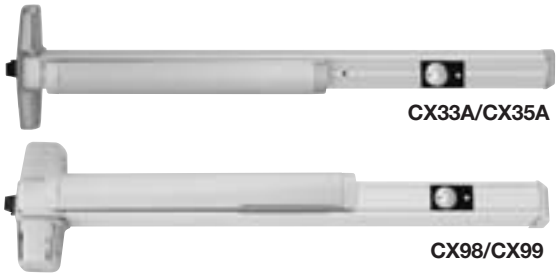
SPECIFICATIONS
SPDT 0.5 ampere @ 24VDC
Solenoid Draw - 0.22 amp





Supplied with 3´ (914mm) cable at the hinge side of door.

Chexit® Controlled Exit Device



Rim device shown — Refer to Chexit Catalog for complete selection information.

CX Chexit is designed for use on delayed exit applications. The Chexit system is ideal for controlled areas. This concept in delayed exit systems combines life safety with the needs of security and meets all requirements of NFPA 101 for "Special Locking Arrangement."

The Chexit system will keep an exit door secured for a 15 second period, yet tied into the fire alarm system will release immediately when an alarm condition exists. All controls, auxiliary locking, local alarm, and remote signaling output are self-contained in the Chexit assembly, providing safe, secure and easy to install door control hardware.

The Chexit system is ideal for highly controlled areas such as airports, hospitals, government facilities and development labs, retail stores, libraries and security facilities.

CX98 and CX99 are available for rim, mortise lock and surface and concealed vertical rod mounting styles. CX33A and CX35A are available on rim mounting style only.

For CX98/9927 and CX98/9957 Panic and Fire Devices, two Rod Guards (RGO) are required. For door heights over 7´ additional Rod Guards (RGO) will be added as needed to protect the rods.

UL listed for use on panic or fire exit doors 3´ or 4´ wide.

The Chexit device includes decal for application on door, "PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS".

A complete Chexit system requires a PS873 power supply and a power transfer. See pages 28 and 29.

FEATURES
- Non handed
- Field sizable
- ¾˝ *(19mm)* throw, latch bolt
- Deadlocking

Request to Exit Switch is built in to detect when someone attempts to exit. Applying less than 15 pounds to the push pad will cause this switch to start an irreversible alarm cycle.

Nuisance Alarm — When the Nuisance Audible and Nuisance Delay options are set to off the device will go into alarm as soon as the push pad is touched. Turning the Nuisance Delay on will require the push pad to be pressed for 2 seconds before the Chexit goes into alarm, which is ideal in public areas. If the Nuisance Audible and Nuisance Delay are both on, the alarm will sound as soon as the push pad is pressed, but the alarm sequence will stop unless held for 2 seconds or more.

Remote Alarm — A set of relay contacts (rated 1 ampere, 24VDC) are provided to give external alarm indication. These contacts close when the device is in an irreversible alarm condition. These contacts can be used to drive a horn, lamp, or other signaling devices.

Key Switch — The Key Switch provides the means to arm, disarm, or reset the Chexit. The key can be removed in either the Arm or Disarm position.

Indicator Lamp — The Indicator Lamp determines the status of the Chexit. When the lamp is off, it indicates disarmed and is functioning as a normal exit device. A slow flashing lamp indicates armed. A fast flashing indicator lamp indicates the device is in alarm.

Internal Horn — Whenever the device is in alarm or the push pad is pressed the Internal Horn will sound. The volume level of this horn exceeds 85 db at 6 feet.

Door Position Input — An external door position switch can be connected to the Chexit. The door position switch will cause the alarm to sound if the door is not closed when the device is armed.

External Inhibit Input — This optional input is provided to allow remote override of the Chexit in the armed condition. It also allows remote reset of the Chexit in an alarmed condition.

Fire Alarm Input — This input disables the Chexit immediately upon a fire alarm.

Internal Auxiliary Lock —The Auxiliary Lock is engaged when the Chexit is armed. The locking mechanism is specifically designed to hold securely even when the exit device is struck with forceful blows.

User Definable Rearm Time — The Rearm Time is the amount of time after the device is activated (via key switch or external inhibit) before it arms. It is designed to give someone time to pass through the door before rearming occurs. The user can change timing for any time between 2 and 28 seconds in two-second intervals.

There is also an infinite rearm setting that requires the use of an external door position switch. In this setting the door remains in the rearm mode until the door is closed. This can be useful on jet way doors in an airport.

Factory Definable Delay — Most jurisdictions allow 15 seconds of delay before allowing egress. In those cases when 15 seconds is not appropriate, Von Duprin can set the Chexit for any delay time between 0 and 60 seconds in two-second increments. ***For delays greater than 15 seconds a letter from the local authority must be provided with the order.***

To Order, Specify:

1. Prefix product description number "CX". Example: CX99L
2. Door size other than 3´ *(914mm)*.
3. Door thickness other than 1 3/4″ *(45mm)*.
4. Finish.
5. Handing, LHR or RHR. Required with "CD" option.

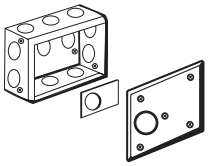
OPTIONS

(See Chexit catalog for all options and accessories)

RCM Remote Chexit Module — is designed to provide the concept of the Chexit delayed exit system for door sizes smaller than the standard Chexit device can accommodate. The Chexit module is installed in a control box and mounted in a remote location. Features and functions of the standard Chexit exit device are available on the Remote Chexit Module.



RCM Module



RCM Control Box, Lens, Cover

Minimum Door Opening for CX and CX-R (RCM)

Device	3´ *(914mm)* Length	4´ *(1219mm)* Length
CX33A/35A RIM	2´10″ *(864mm)*	3´4″ *(1016mm)*
CX 98/99 RIM	2´10″ *(864mm)*	3´4″ *(1016mm)*
CX 98/9927	2´9″ *(838mm)*	3´3″ *(1041mm)*
CX 98/9947	2´9″ *(838mm)*	3´3″ *(1041mm)*
CX 98/9947-F	2´10″ *(864mm)*	3´4″ *(1016mm)*
CX 98/9975	2´10″ *(864mm)*	3´4″ *(1016mm)*
CX-R 33A/35A RIM	2´5″ *(864mm)*	2´11″ *(1016mm)*
CX-R 98/99 RIM	2´5″ *(864mm)*	2´11″ *(1016mm)*
CX-R 98/9927	2´4″ *(838mm)*	2´10″ *(1041mm)*
CX-R 98/9947	2´4″ *(838mm)*	2´10″ *(1041mm)*
CX-R 98/9947-F	2´5″ *(864mm)*	2´11″ *(1016mm)*
CX-R 98/9947WDC	2´5″ *(864mm)*	2´11″ *(1016mm)*
CX-R 98/9975	2´5″ *(864mm)*	2´11″ *(1016mm)*

Cylinder Dogging — Special Center Case Cylinder dogging option is available to allow push/pull operation of the Chexit, when disarmed and used in a heavy traffic area. Prefix device with "CD" and specify handing.

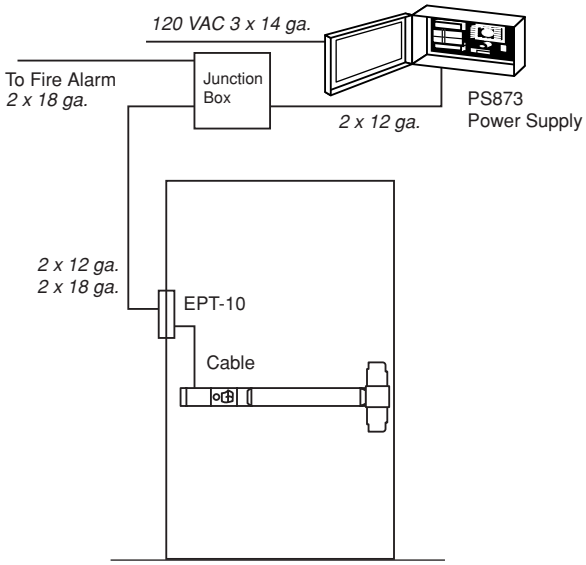


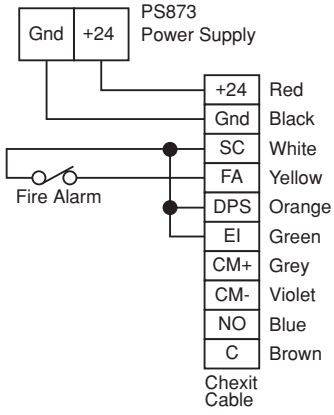
Cylinders — Cylinders are not furnished with the Chexit device and must be specified when ordering. Uses a standard 1 ¼″ *(32mm)* mortise cylinder for the device and the CD cylinder dogging option.



SPECIFICATIONS
Continuous Duty — 24VDC
Current In-rush — 16 amperes
Current Holding — .3 amperes
External Alarm Contact — 1 ampere @ 24VDC
Fire Alarm Input, External Inhibit Input, Door Position Input – set-up for normally closed dry contacts.

Basic Chexit single door application configuration consists of the Chexit device, power transfer and PS873 power supply. Using this setup, the Chexit will delay egress when armed and act as a normal exit device when turned off.





The **DE5101,** like the Chexit system, is used on delayed exit application and is ideal for controlled areas. This concept in delayed exit systems combines life safety with the needs of security and meets all requirements of NFPA 101 for "Special Locking Arrangement."

The DE5101 is commonly used on narrow stile doors where a standard or narrow stile Chexit is not practical. DE5101 Delayed Exit System uses a Chexit logic board and a Von Duprin RX (request to exit) panic device to control a Locknetics Direct Hold Magnetic Lock.

The Chexit module for the DE5101 is installed in a control box and mounted in the wall adjacent to the door. Features and functions of the standard Chexit exit device are available on the DE5101 (see page 22).

The DE5101 includes decal for application on door. "PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS". This is a code based requirement.

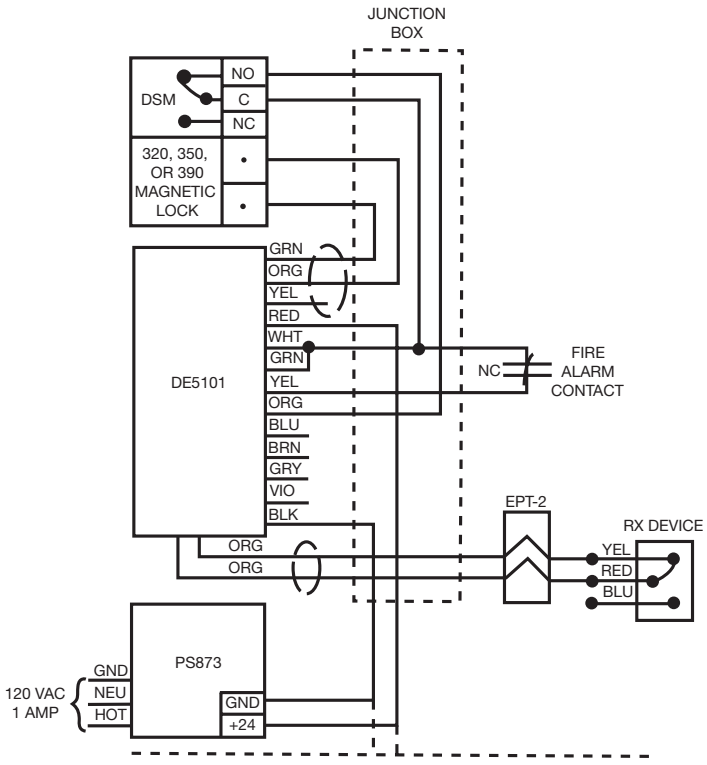
Cylinders — Cylinders are not furnished with the DE5101 system and must be specified when ordering. Uses a standard 1 ¼″ *(32mm)* mortise cylinder for the control. (Schlage cam - B502-191)

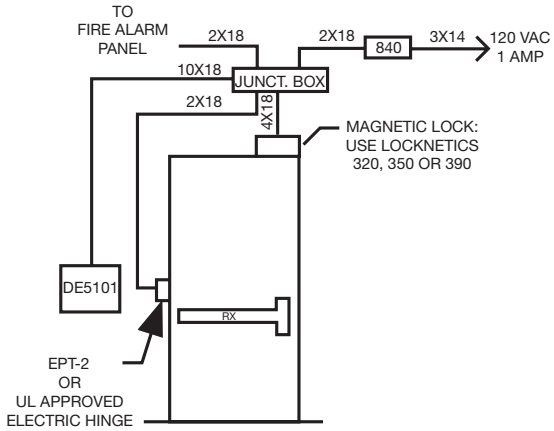


To Order, Specify:

1. DE5101
2. Locknetics 320, 350, or 390 Magnetic Lock (order direct from Locknetics).
3. RX22/33A/35A/98/99 device.
4. PS873
5. EPT-2

SPECIFICATIONS
Continuous Duty — 24VDC
Current Holding DE5101 without Magnetic Locks – 300 mA
External Alarm Contact — 1 ampere @ 24VDC
Fire Alarm Input, External Inhibit Input, Door Position Input – set-up for normally closed dry contacts.





ALK Battery Alarm Kit



ALK Alarm Kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key thus allowing the exit device to be set in an armed or disarmed mode. The horn is rated at 85 decibels.

The key switch uses a standard 1¼" *(32mm)* mortise cylinder with a straight cam (Schlage cam reference B502-191).

The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal. The ALK can also be hard wired and powered using a PS9 power supply.

Alarm kits are furnished standard with a RX-request to exit switch that monitors the touchpad. Optional LX-latch bolt monitoring, or RX2-double request to exit monitor switches are available. LX-latch bolt monitoring is recommended for use with surface vertical rod exit devices.

Note: For latch bolt monitoring on a 98/9975 mortise device with ALK, specify SS7500 lock. LX switch is not available for 98/9975 devices.

The ALK includes a standard decal reading "EMERGENCY EXIT ONLY. ALARM WILL SOUND" for application on the door, or optional SS-signal switch push bar trim is available. See page 18 for details. The standard decal is white with red lettering.

The ALK is available with two optional circuit boards. External inhibit (EI) allows for the use of external switch to be used to arm, disarm and reset the alarm. Auto Reset (AR) rearms the alarm after a preset time. Auto Reset is available in three factory set times, 1 1/2, 3 or 6 minutes.

To Order, Specify:

1. With device, specify ALK.
2. To order separately specify model, example 22ALK.
3. Specify options EI or AR. For AR option specify factory set time (1½, 3 or 6 minutes). Example 98ALK-AR 3 min.
4. Door size other than 3´.
5. Switch if other than RX.
6. Optional pushbar, specify "SS" pushbar trim.
7. Finish:
   22ALK: SP28, SP313
   33A/99ALK: US3, US4, US10, US28, US26, 313AN, 315AN
   35A-ALK: US3, US4, US10, US15, US28, US26, 313AN, 315AN
   98ALK: US3, US4, US10, US15, US28, US26, US32D, 313AN, 315AN

Minimum Door Opening Sizes on ALK Applications

Device	3´ *(914mm)* Length	4´ *(1219mm)* Length
22/22F	2´3˝ *(673mm)*	2´9˝ *(838mm)*
2227/2227-F	2´2˝ *(657mm)*	2´8˝ *(838mm)*
33A/35A	2´9˝ *(838mm)*	3´3˝ *(991mm)*
3327A/3527A	2´8˝ *(813mm)*	3´2˝ *(966mm)*
3347A/3347A-F 3547A/3547A-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
3348A/3348A-F/ 3548A/3548A-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
98/98-F/99/99-F	2´9˝ *(838mm)*	3´3˝ *(991mm)*
9875/9875-F/9975/9975-F	2´9˝ *(838mm)*	3´3˝ *(991mm)*
9827/9827-F/9927/9927-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
9857/9857-F/9957/9957-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
9847/9847-F/9947/9947-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
9848/9848-F/9948/9948-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*

PS9 POWER SUPPLY

PS9 power supply provides 9VDC to power ALK alarm kits. The unit will power one or two alarm kits. Included is a 9 volt sealed battery for power backup in case of AC power failure. PS9 must be ordered separate.

VON DUPRIN® GUARD-X Exit Device



2670 GUARD-X provides secure, alarmed code-compliant protection for secondary emergency exits. The GUARD-X exit alarm lock readily identifies the door on which it is mounted as an emergency exit and secures the opening against unauthorized use. It is ideal for deterring theft in restaurants and retail establishments such as: discount stores, grocery stores, drug stores, clothing stores and sporting goods stores.

The GUARD-X lock provides secure protection through a large stainless steel deadbolt, which is 2˝ x ½˝ *(51mm x 13mm)* and has over ¾˝ *(19mm)* throw. The engagement area into the strike is over 1 ¼˝ *(32mm)* square inches. The cast aluminum latch case protects the internal mechanism and resists tampering or vandalism from inside the door. This unit has been tested to withstand up to 1600 pounds of static load force against the door.

GUARD-X does not allow re-latching or resetting the alarm after an unauthorized exit, other than by an authorized person with a key. A 100-decibel alarm provides clear, attention getting warning for an unauthorized exit or attempted exit. The armed indicator light informs the owner that the alarm is armed, and an audible low-battery alert signals the owner to replace the battery when necessary.

A standard 9-volt battery powers the alarm. An exterior 9-volt power supply is available, Model PT-790, a 120VAC plug-in. When using the external power supply, the 9-volt battery functions as a battery backup during a power failure.

GUARD-X is armed and disarmed by key using a standard rim cylinder. It can be operated from the building exterior by a standard rim cylinder, so an authorized user can easily arm and disarm it to enter or exit the building when required. When using exterior operation a pull trim is recommended, use 210DT or 230DT. Rim cylinders are not furnished and must be ordered separately.

The 267 strike is furnished standard for single door applications. The optional 2609 strike is available for double door applications.

The GUARD-X non-handed design means the installer can mount it for either hand by just removing and reversing the "EMERGENCY EXIT – ALARM WILL SOUND" sign built into the device. The standard warning sign is in English with Braille; French and Spanish are available.

GUARD-X is UL/cUL listed for Panic Exit Hardware, complies with NFPA 101 Life Safety Code, meets UL305 requirements and is tested in accordance to ANSI A156.3 Grade 1 Panic Hardware. It is compliant with NFPA 101 Life Safety Code by providing a push pad that extends at least one-half the width of any door up to 48˝ wide. The impact-resistant end caps meet UL305 requirements by providing a design that will not catch on clothing during egress.

To Order, Specify:

1. Model 2670
2. Finish: US28, 313AN, 315AN.
3. Strike if other than standard 267.
4. Language if other than English.
5. Specify Rim Cylinder or Sex Bolts if required.
6. Outside trim if needed.

E7500 electric mortise lock has all the versatility and advantages of the standard mortise lock device, plus the advantage of being electrically controlled by a remote switching device, an access control system or an automatic fire alarm system. Available for use with the 98/99 series devices.

The E7500 controls the locking of the outside trim. When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking, but require unlocking during a fire emergency.

The E7500 locks and unlocks electrically and cannot be locked or unlocked mechanically. The outside trim cylinder retracts the latch bolt for mechanical override, night latch function. Available only with TP, K or L functions. 1 ¼″ *(32mm)* mortise cylinder with straight cam (not furnished.) (Schlage B502-191)

The E7500 lock contains a SPDT signal to monitor the outside trim condition (locked or unlocked) and a second SPDT signal switch to monitor the latch bolt.

The E option does not include the power transfer from door to frame, the power supply or the control operator. Refer to EPT-10 on page 29 and PS861 or PS873 power supply on page 28.

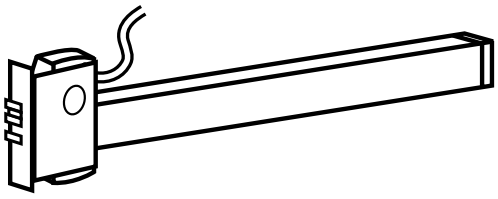
FEATURES

- Field reversible handing
- 24VDC continuous duty solenoid
- Tamper resistant
- Corrosion resistant
- Internal solenoid

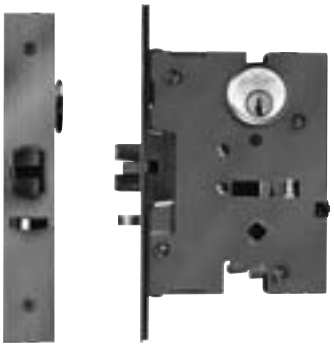
OPTIONS

- Fail safe - locked when energized, unlocked when de-energized or during power failure specify with suffix “FS”.
- Fail secure - unlocked when energized, specify with suffix “FSE”. Outside trim automatically relocks, unless held unlocked electrically.
- 24VAC (includes SO option).
- 12VDC
- 12VAC (includes SO option).

Note: *Some fire codes will require “Fail Safe” (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.*



Wiring at latch side of door.

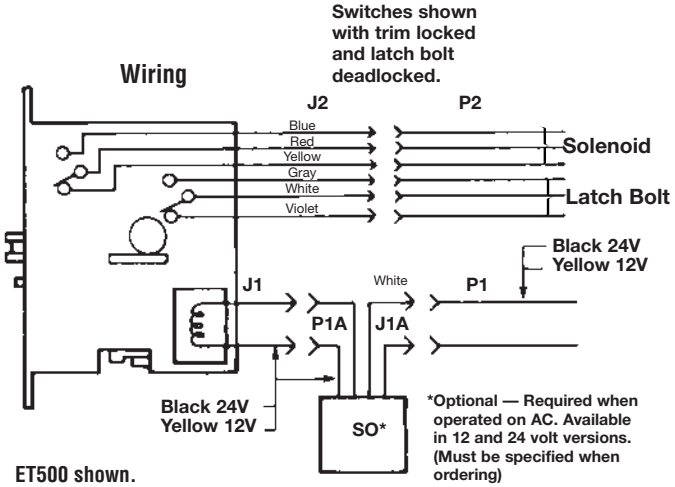


UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware – consult device catalog for complete device listing information.

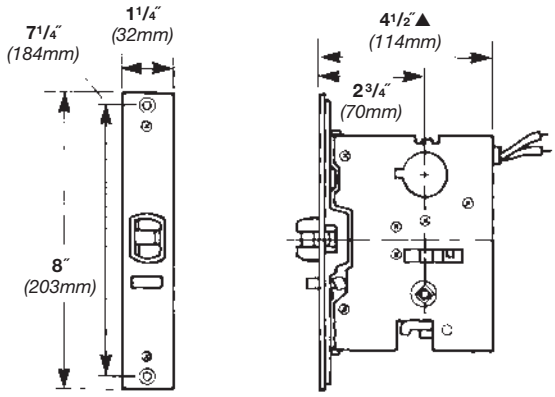
SPECIFICATIONS
Solenoid — 24VDC, .3 ampere, Continuous Duty
Solenoid — 12VDC, .6 ampere, Continuous Duty

To Order, Specify:

1. Model E7500.
2. Voltage 12V or 24V (24V furnished standard if not specified).
3. Current DC or AC (DC current furnished standard if not specified).
4. FS (Fail Safe) or FSE (Fail Secure).
5. Finish: US3, US4, US10, US10B, US32, US32D, US19.
6. When ordering with device, refer to device catalog section for complete product information (type, function, finish, etc.)



ET500 shown.
SS7500 includes only J2/P2 connectors and wiring



4 13⁄16″ *(122mm)* clearance required for wiring.

VON DUPRIN® CM993 and PRO993 Exit Trim

The Von Duprin Computer Managed CM993 exit trim is a stand-alone, battery-powered exit trim for use on doors where an exit device is required for egress. The CM993 is designed to be used with Von Duprin 98/99 exit devices for unmatched access control and ease of use. It can be programmed with LockLink™ or LockLink™ Express access control management software. The same software can also manage the Schlage CM Locks and the Locknetics Universal Controllers, which provide intelligent access control for electrified or battery-powered products such as magnets, strikes and cabinet locks.

Multiple users, Multiple access points. Multiple credentials. One way to manage them.

Provides Unmatched Access Control

- Manages up to 1,000 users and provides audit trail for last 1,000 events
- SmartTime feature allows for time functionality:
  - time zones
  - time schedules
  - holiday override periods
  - first person in
  - credential activation and expiration
- Full-swipe mag stripe card reader for maximum readability and reliability
- Optional audit trail of mechanical key override
- Auto card updating feature which disables a lost or stolen mag stripe card when the reissued card is presented at the lock
- LED status indicators

Easy to Retrofit… Easy to Operate and Architecturally Designed for New Construction

- Directly retrofits existing trim
- Fits doors from 1⅜″ to 2¼″ thick
- Comes with Schlage Everest 1¼″ cylinder, but can adapt to other existing key systems
- LockLink™ software that programs the locks is Windows®-based and menu-driven. It can be operated with minimal training



CM993 Exit Trim



For use with VonDuprin 98/99 Series Exit Devices including Rim, Surface Vertical, Concealed Vertical and Three-Point latching models. (Not for use with mortise devices.)

Conversion to New Card System Not Necessary

- Our exit device trims most likely work with your existing mag card and HID prox cards

Programmable PRO993 Exit Trim for Manual Programming

- Manually program up to 120 keycodes right at the trim
- Similar mechanical features as CM993
- Complements Schlage PRO and Locknetics PRO Series products



CM993 – MGK – 06 – LH – KD – 695 – EXT

- Select Model
- Select Access Credential Option
- Select Lever
- Select Handing
- Select Key Cylinder Option
- Select Finish
- Select Trim Options

1. Select Model



CM993 Computer managed exit trim

993-DT Dummy trim for inactive leaf

PRO993 Manually programmed exit trim

993-BE Blank escutcheon

2. Select Access Credential Option (CMs only)



KPI
Keypad iButton Reader



IBO
iButton Reader



MGK
Mag Card Reader Keypad iButton Reader



MGI
Mag Card Reader iButton Reader



PXK
HID prox Reader Keypad iButton Reader



PXI
HID prox Reader iButton Reader

3. Select Lever



06 (Standard)



17

4. Select Handing

RH Right Hand
LH Left Hand
Note: Handing is field-reversible

5. Select Key Cylinder Option
(1 1/4″ Mortise)

KD Schlage Everest Cylinder
LC Less Cylinder

Note: Master keyed cylinders order separately

6. Select Finish



605 Bright Brass

612 Satin Bronze

613 Oil Rubbed Bronze

625 Bright Chrome

626 Satin Chrome (Standard)

695 Duranodic Dark Bronze

7. Select Trim Options

ATK Audit trail of mechanical key override, includes ATR (Requires computer programming)
T3 ABA Track 3 Mag Card Reader (ABA Track 2 is standard for MGI and MGK Series only)
EXT Mag Card Reader for exterior use (for MGI and MGK Series only)
Door Thickness State door thickness. Available from 1⅜″ to 2¾″ in ⅛″ increments
EG Exterior Gasket for PRO993 only

Select Credentials

IBA iButton (adhesive backed)
IBF iButton on Fob
MAG1 Magnetic Stripe Card – Blank
MAG2 Magnetic Stripe Card – Pre-encoded
PRX1 Prox Card – Standard .070″ thick
PRX2 Prox Card – Adhesive backed for photo application, .070″ thick
PRX3 Prox Card – ISO – credit card size and thickness, .031″ thick
PRX4 Prox Card – Dual Technologies, magnetic stripe and Prox, .031″ thick
PF1 Prox Fob

SERIES PS861
The series PS861 power supply is designed for electromagnetic locks and electric strikes on single door applications. The output power is field selectable for either 24VDC @ 1 ampere or 12VDC @ 2 ampere. Standard input 120VAC @ 0.6 ampere and 240VAC @ 0.3 ampere available. Terminal block will accept up to 14 gauge stranded wire.



Enclosure is 10˝ high x 12½˝ wide x 5˝ deep* *(254mm x 323mm x 127mm)*, gray with 1 hinged cover and constructed of heavy 19 gauge steel. Six ½˝ *(13mm)* knockout holes are provided for conduit connection.

Options include keylock cover and sealed lead acid battery pack. The pair of batteries will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored. Not appropriate for CX or EL devices.

FOUR CONFIGURATIONS

PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861BK	Battery backup and keylock cover

SERIES PS873
The series PS873 power supply is designed to operate a wide variety of electrical products. EL panics require 871-2 PCB minimum. The regulated output power is field selectable for either 24VDC @ 2 ampere or 12VDC @ 4 ampere. Standard input 120VAC @ 1.0 ampere or 240VAC @ 0.5 ampere available.

Enclosure is 10˝ high x 12½˝ wide x 5˝ deep *(254mm x 323mm x 127mm)*, gray with a hinged cover and constructed of heavy 19 gauge steel. Five ½˝ x ¾˝ *(13mm x 19mm)* knockout holes are provided for conduit connection. Terminal block will accept up to 12 gauge wire.

The PS873 can be ordered with three standard options: **Key lock** secures the cover to eliminate tampering and provides safety; **Battery backup** provides two hours backup power at full load during a A.C. power failure; **Fire Alarm** provides input for a normally closed fire alarm contact. When the fire alarm contact is “open”, power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

Eight standard configurations:

PS873	Standard
PS873K	With keylock
PS873B	With battery
PS873BK	With battery and keylock
PS873FA	With fire alarm
PS873K-FA	With keylock and fire alarm
PS873B-FA	With battery and fire alarm
PS873BK-FA	With battery, keylock and fire alarm

The series PS873 is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

Factory or Field Installed Circuit Cards:
871-2, Two Zone controller provides two inputs and two outputs. Will operate one or two EL exit devices. Use suffix “-2” for factory installed, example PS873-2.

873-AL, Alarm function monitors 1 or 2 zones and provides alarm output, upon detecting a door in the open position. Delayed alarming is selectable from 5 to 75 seconds. Use suffix “-AL” for factory installed, example PS873-AL.

873-AO, Auto Operator function coordinates the electric latch retraction of one or two locks or devices and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods; by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by a “RX” type input switch. Use suffix “-AO” for factory installed, example PS873-AO.



873-SI, Security/Safety Interlock provide interlock function for two zones. When combined with a second 873-SI card, the inter-locking of groups are available in two, three or four zones. Safety interlock is available, consult factory for additional information. Use suffix “-SI” for factory installed, example PS873-SI.

873-4TD, Four Zone controller with **Time Delay** provides four inputs and four outputs with time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. Use suffix “-4TD” for factory installed, example PS873-4TD.

873-AC, Access Control provides supervision of one zone using an electromagnetic lock. Input signals required are: access control contact, motion detector contact, and motion detector override contact. FA, Fire Alarm option is required. Use suffix “-AC”. For factory installed, example PS873-AC.

Factory Installed Only Circuit Cards:
873-DE, Delayed Egress function ideal for use with electromagnetic locks, will operate two zones simultaneously. To operate two separate zones, a second 873-DE card is required. UL listed component, when used as part of a Von Duprin delayed egress system. Use suffix “-DE”, example PS873-DE.

Note: DE cards cannot be combined with any other optional cards.

PS9 Power Supply
PS9 Power Supply provides 9VDC to power ALK alarm kits. The unit will power one or two alarm kits. Included is a 9 volt seated battery for power backup in case of AC power failure. PS9 must be ordered separate.

Electrical Power Transfer

Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suited for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires.

The EPT-2 and EPT-10 are UL listed as "miscellaneous door accessory."

Pneumatic Controls
PNT-1 is available for pneumatic latch retraction exit devices. Appearance and dimensions are identical to EPT models.

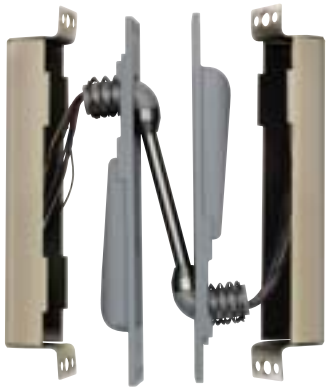
UL listed for use on fire doors.

Door Applications
Up to 5″ butt hinges - 180° Swing
5 1/2″ butt hinges - 130° Swing
6″ butt hinges - 110° Swing
3/4″ butt offset pivots - 180° Swing

Not for use with swing clear hinges or center-hung pivots.

SPECIFICATIONS
Housing — 9″ x 1¼″ x 1⅝″ *(229mm x 32mm x 38mm)*
EPT-2 — Two 18 gauge wires Up to 2 amps @ 24VDC, with a 16 amps maximum surge
EPT-10 — Ten 24 gauge wires, up to 1 amp @ 24VDC, with a 16 amps maximum surge
PNT-1 5/32″ Tubing

TO ORDER, SPECIFY:
1. EPT-2, EPT-10 or PNT-1
2. Finish, SP28 or SP313



UL Listed as "Miscellaneous" Fire Door Accessory" GVUX

Junction Box

High quality NEMA 1, junction boxes provide convenient installation, available in three models. These surface mounted units are 10″ *(254mm)* high, 10" *(254mm)* wide and 6″ *(152mm)* deep and includes hinged door with twist turn lock. 24 position terminal strip will accept from 24 to 12 gauge wire.

Five models:

JB7 Junction box only.

JB7-R1 Junction box with SPDT Relay.

JB7-R2 Junction box with DPDT Relay.

JB7-R3 Junction box with DPDT Relay on Make Relay.

JB7-R4 Junction box with DPDT Relay on Brake Relay.



VON DUPRIN® Monitor Strikes

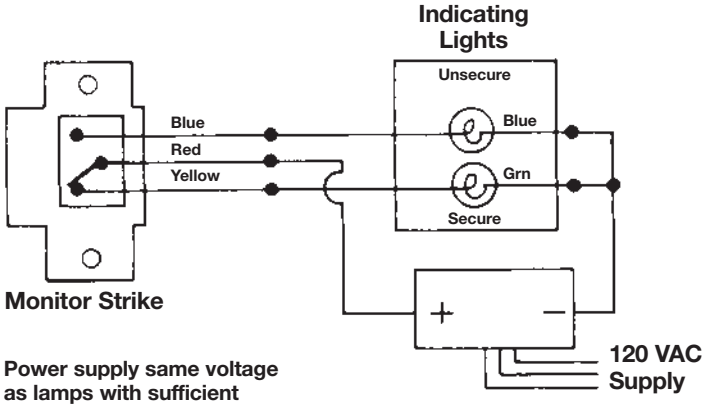
Monitor Strikes are designed to offer remote door monitoring through the use of a signal switch mounted in the strike to monitor the latch bolt. This series of monitor strikes is designed for use with Von Duprin and most other manufacturers' rim, mortise, surface and concealed vertical rod exit devices and cylindrical, mortise, and unit type locks.

The Monitor strike replaces the standard door strike. The tripper in the monitor strike is depressed when the latch bolt is fully inserted in the strike the stainless steel tripper activates an electric switch.

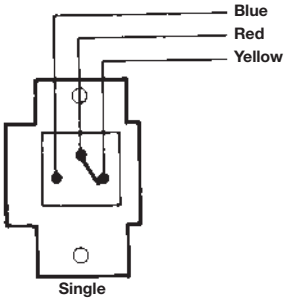
TO ORDER, SPECIFY:

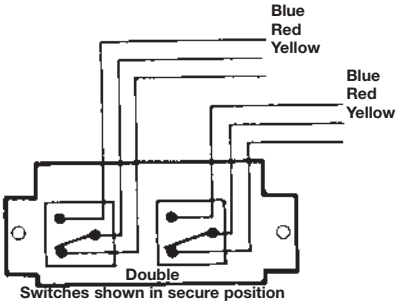
1. Model
2. Tripper T1, T2, or T3.
3. Handing required on model 4582. Specify LHR or RHR.
4. Finish: US3, US4, US10, US10B, US26, US26D.

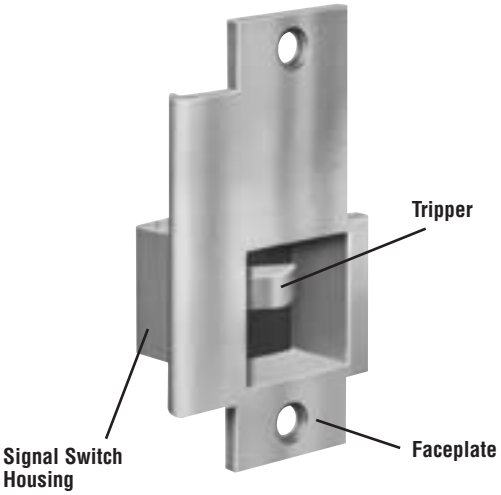
BASIC MONITOR STRIKE CIRCUIT

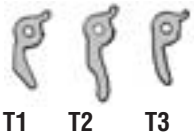


Power supply same voltage as lamps with sufficient current capabilities









▲Tripper selection is based on the throw and shape of the latch bolt.

SPECIFICATIONS
SPDT Switch (single pole double throw):
Rated 24VDC @ 2 amperes (resistive)



4263

4263

Monitor strike for use with rim or surface vertical rod exit devices. The 4263 is non-handed and features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is drop forged brass. The tripper selection (-T1 or -T3) is based upon the lock to be used with. See Chart below. Two 4263 strikes may be used on 4754 mullion.

COMPATIBILITY CHART	
Von Duprin	
22	T3
2227	T1
33A/35A	T1
3327A/3527A	T3
44	T1
55	T1
88	T1
8827	T1
98/99	T3
9827/9927	T1
Monarch	
Rim (3/49 (19mm) throw)	T3
Yale	
1500 (5/89 (16mm) throw)	T1



4268T1 4582

UL listed (GXHX R4504) fire exit hardware.

4268–T1 Single Doors Only - (Not for Mullions)

Monitor strike especially for rim fire devices. The 4268 features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is brass or cast stainless steel. The SPDT signal switch is rated at 24VDC @ 2 amps (resistive) and is actuated by a stainless steel tripper.

COMPATIBILITY CHART
22/22-F
33/35
88/88-F
98/99/98-F/99-F

4582

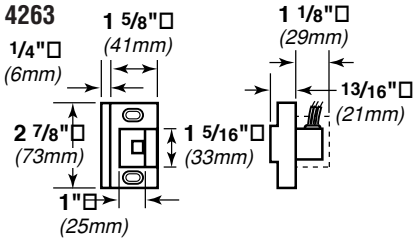
Monitor strike for use with mortise or cylindrical locks on single or pairs of doors with ANSI A115.3 frame cutout (frame modification required). The one piece faceplate and body is constructed of drop forged brass.

The tripper selection (-T1 or -T2) is based upon the lock to be used. See Chart below.

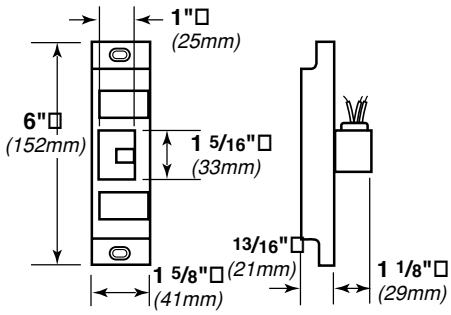
Note: When used with Von Duprin 7500 mortise lock, strike handing is opposite device handing.

COMPATIBILITY CHART		
Von Duprin 7500 ML		T1
Arrow	⅝″ *(16mm)* ML (LR)	T2
Corbin	⅝″ *(16mm)* ML (LR)	T2
Falcon	⅝″ *(16mm)* ML (LR)	T2
Russwin	⅝″ *(16mm)* ML (LR)	T2
	5000 ML (LR)	T2
Schlage	¾″ *(19mm)* Cyl.	T2
	L90	T2
Yale	⅝″ *(16mm)* ML (LR)	T2

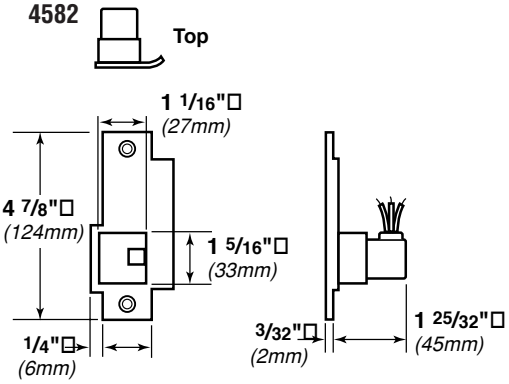
4263



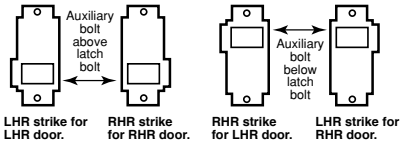
4268-T1



4582



Caution: proper selection of handing required.



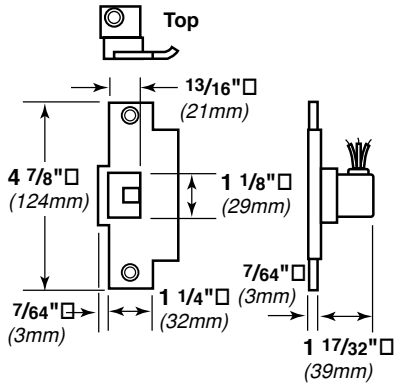
4570–T1
For use on single or double door applications with ANSI A115.2 frame cutout (frame modification required). See Chart below.

4570–T1
For use on single or double door applications with ANSI A115.3 frame cutout (frame modification required). See Chart below.

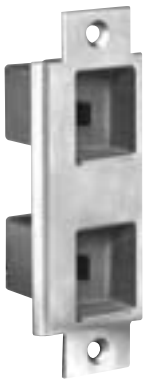
COMPATIBILITY CHART		
Adams-Rite	4510	T1
	8400	T1
Arrow	1/29 (13mm) Cyl.	T1
Best	9/169 (14mm) Cyl.	T1
Corbin	5/89 (16mm) Cyl.	T1
Dexter	7/169 (11mm) Cyl.	T1
Falcon	1/29 (13mm) Cyl.	T1
	9/169 (14mm) Cyl.	T1
Kwikset	1/29 (13mm) Cyl.	T1
Lockwood	1/29 (13mm) Cyl.	T1
Precision	1040 Auto. Flush Bolt	T1★
Russwin	5/89 (16mm) Cyl.	T1
Sargent	1/29 (13mm) Cyl.	T1
Schlage	1/29 (13mm) Cyl.	T1
	5/89 (14mm) Cyl.	T1
Yale	1/29 (13mm) Cyl.	T1

★ **Special template required.**

4570-T1









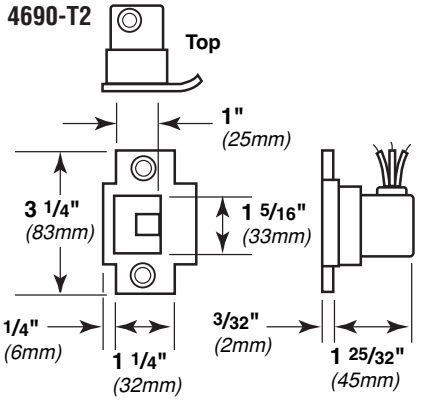
UL listed (GXHX R4504) fire exit hardware, (4268T1 and 4582 only).

4690–T2
Use on wide stile double door applications.

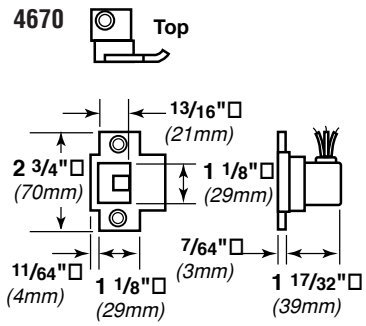
4690–1–T2
Use on narrow stile double door applications. (Contains two SPDT switches, one for each latchbolt).

COMPATIBILITY CHART			
	4690	4690-1	
Von Duprin	3347A-F	—	T2
	3347A	3347A	T2
	9947	—	T2
	9947F	—	T2

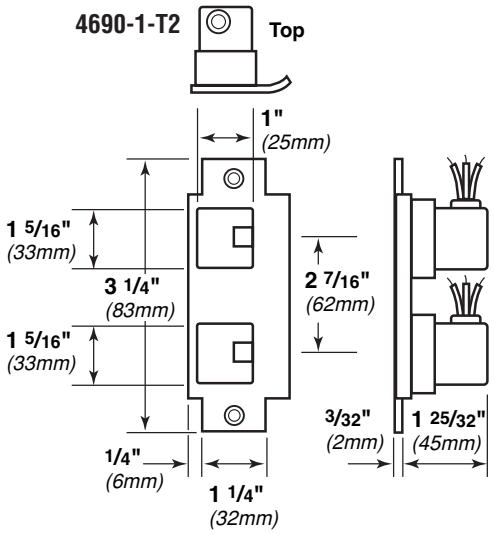
4690-T2



4670



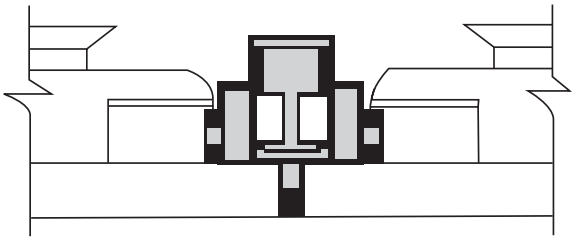
4690-1-T2



Electrified Removable Mullions are used with pairs of doors equipped with rim mounted exit devices.

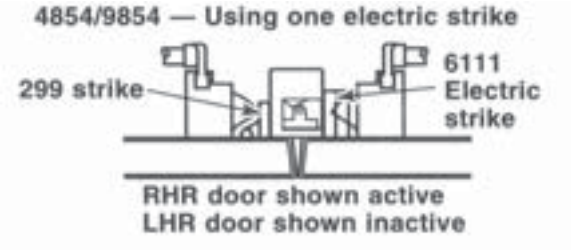
Each includes an electric cable with five conductors wired to a twist-apart plug. The soffit fitting is supplied with a pre-wired mating socket.

4754 — Prepared for two 4263 monitor strikes. Use with all Von Duprin rim panic devices.



4854 — Prepared for one 6111 electric strike and one 299 strike. Indicate handing for electric strike.

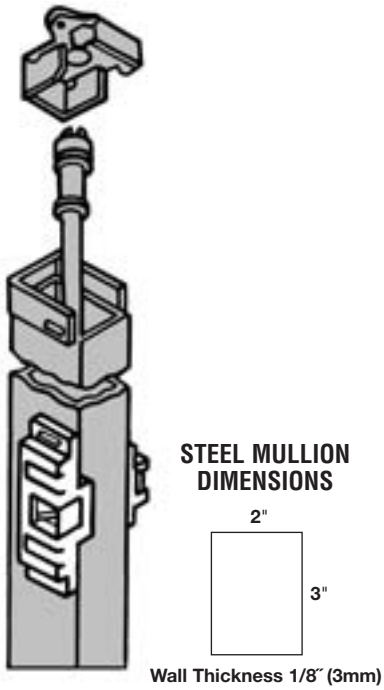
9854 — Prepared for one 6111 electric strike and one 268 or 499F strike. Indicate handing for electric strike. UL Fire labeled for up to 3 hours on up to 8' x 8' (2438mm x 2438mm) openings using Von Duprin fire exit rim devices.



KR - Keyed Removable option available on electrified removable mullion. Makes removal faster and easier by a single operation of the mortise cylinder. Once mullion is removed, large equipment or furniture can freely pass through the opening. The unit will self lock when re-installed, without use of the cylinder key. Uses 1 1/4″ mortise cylinder with a straight cam (Schlage cam reference B502-191). Cylinders are sold separately. Prefix mullion model with "KR".

To Order, specify

1. Model number.
2. Height of opening
3. Finish: SP28, SP313, SPBLK.
4. Handing if required.
5. Centerline deviation (refer to device template for standard centerline).
6. Strikes, when required, should be ordered with device.
7. For keyed removable option prefix model number with "KR", example KR9854.



Sizes for Mullions

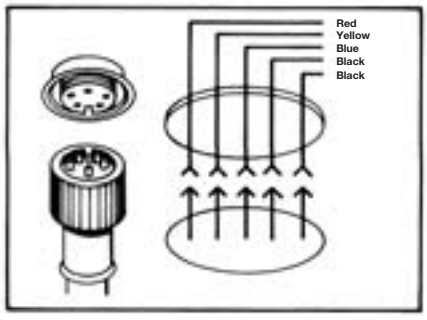
4754, 4854, 9854
7′ 2″ (2184mm)
**8′ 2″ (2489mm)*
**10′ 2″ (3099mm)*

KR4754, KR4854
7′ 6″ (2286mm)
8′ 6″ (2591mm)
10′ 6″ (3200mm)

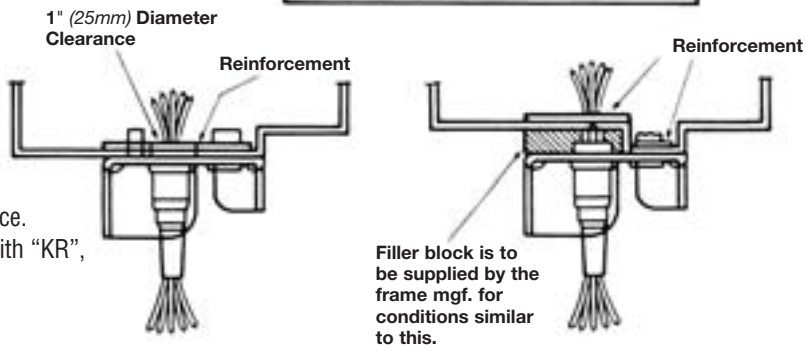
KR9854**
7′ 5″ (2261mm)
**8′ 5″ (2565mm)*
**10′ 5″ (3175mm)*

* Only qualifying applications will be provided with UL Label.
** Fire rated same as 9854

QUICK DISCONNECT

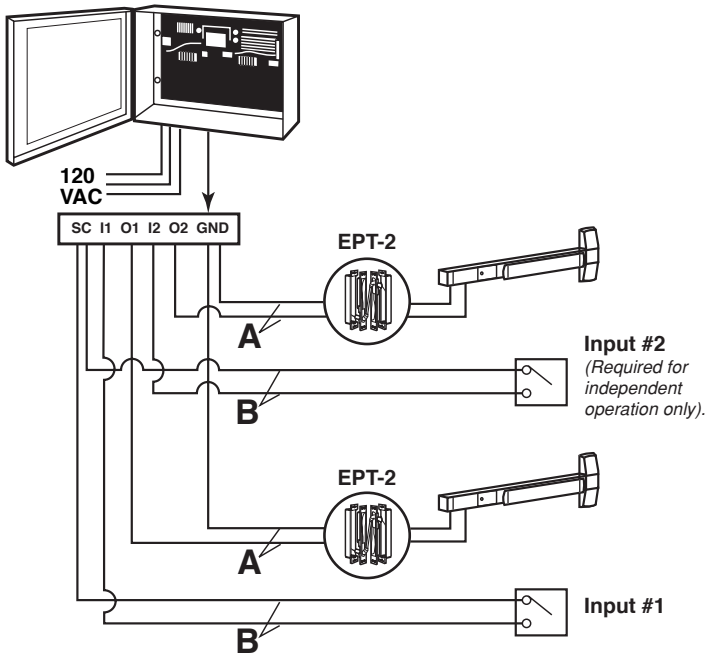


SOFFIT DETAILS



WIRE SIZE SELECTION

	Current requirement at 24 VDC			
	0–.5 Amp	.5–1 Amp	1–2 Amp	2–3 Amp
0-100 *(0-30)*	18	18	18	18
100-200 *(30-61)*	18	18	18	16
200-300 *(61-91)*	18	18	16	14
300-450 *(91-137)*	18	16	14	12
450-600 *(137-183)*	18	16	12	NR
600-900 *(183-274)*	16	14	NR	NR
900-1.200 *(274-366)*	14	12	NR	NR



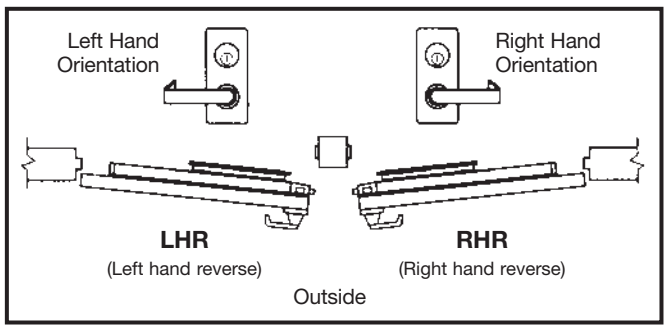
A

WIRE SIZE SELECTION	Using EL Device w/EPT or Door Loop
0-100 *ft*	14 gauge
0-200 *ft*	12 gauge
	Using EL Device w/Electric Hinge/Pivot (not shown)
0-150 *ft*	12 gauge
0-75 *ft*	14 gauge

B

WIRE SIZE SELECTION	Using EL Device w/EPT or Door Loop
1200 *ft* (366 meters) Maximum	B-18 gauge

HANDING OF DOORS



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VON DUPRIN®

22 Series Exit Devices



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Finishes



Color	US Number	BHMA Number
Sprayed Aluminum	SP28	689
Sprayed Dark Bronze	SP313	695

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Symbols

Indicates Fire Rated Application **Indicates ADA Products**

Introduction

Exit devices are a critical part of the Fire and Life Safety egress system and will provide safe and reliable service when properly applied and maintained. Von Duprin designs and manufactures exit devices in accordance to ISO 9001 Quality Management System and meets or exceed accepted U.S. domestic and International standards. All 22 series exit devices are UL listed for Panic Hardware or Fire Hardware, and are certified to ANSI A156.3, 2001, Grade1. Consult your local IR Security & Safety consultant or the Von Duprin factory for current listings.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended that whenever an unusual application condition exists, or when any modification of a product is considered, that our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.

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299 Strike

22 rim exit device for all types of single and double doors with mullion, UL listed for Panic Exit Hardware. Devices are ANSI A156.3, 2001, Grade 1. Covers stock hollow metal doors with 161* cutouts. Fits door stiles as narrow as 3 13⁄16" *(97mm)*, see page 12. See opposite page for available outside trim and device functions.

**Not applicable with all strike and mullion combinations, consult factory.*

Specifications

Device Functions	Ships ready for all functions; EO, DT, NL, TP, K, L	
Device Handing	Non-Handed	
Device Lengths	3' *(914mm)* – see minimum door opening chart at bottom of page 4' *(1219mm)* – see minimum door opening chart at bottom of page	
Finishes	SP28, SP313	
Strikes	299 Dull Black Optional Strikes	 see page 12
Dogging Feature	Hex key dogging standard LD Less Dogging	 see page 14
Electric Options	LX Latchbolt Monitor Switch RX Touch Bar Monitor Switch RX2 Double Touch Bar Monitor Switch ALK Alarm Exit Kit	see page 14 see page 14 see page 14 see page 14
Miscellaneous Options	GBK Glass Bead Kit	see page 15
Fasteners & Sex Bolts (SNB)	Includes 1 3⁄4" *(19mm)* – 2 1⁄4" *(57mm)* Wood & Metal Doors Optional SNB available for device, see next page for quantities	
Latch Bolt	Deadlocking, 3⁄4" *(19mm)* throw	
Device Centerline from	39 13⁄16" *(1011mm)* at center of device **Finished Floor** 39 11⁄16" *(1008mm)* with Mullion	
Device Dimensions		see page 13

See page 16 for How to Order specification

Minimum Door Opening Chart

Stop Height	Strike	Single Door	Double Door w/Mullion	Minimum Door Opening for 3´ device*	Minimum Door Opening w/ALK*
½´´	299	Yes	—	26.500´´ *(673mm)*	33.250´´ *(845mm)*
½´´	1439	Yes	—	25.687´´ *(652mm)*	32.437´´ *(824mm)*
½´´	299	—	4754/4854/4954	27.000´´ *(686mm)*	33.750´´ *(857mm)*
½´´	299	—	5654	25.812´´ *(656mm)*	32.562´´ *(827mm)*
½´´	1408	—	5754	25.750´´ *(679mm)*	32.500´´ *(826mm)*
½´´	1606	—	1654	26.562´´ *(675mm)*	33.312´´ *(846mm)*
⅝´´	299	Yes	—	26.750´´ *(679mm)*	33.500´´ *(851mm)*
⅝´´	1439	Yes	—	25.937´´ *(659mm)*	32.687´´ *(830mm)*
⅝´´	299	—	4754/4854/4954	27.125´´ *(689mm)*	33.875´´ *(860mm)*
⅝´´	299	—	5654	26.687´´ *(678mm)*	33.437´´ *(849mm)*
⅝´´	1408	—	5754	25.875´´ *(657mm)*	32.625´´ *(829mm)*
⅝´´	1606	—	1654	26.687´´ *(678mm)*	33.437´´ *(849mm)*

For 4´ device, add 6´´ *(152mm)

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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required
				
Product Description	22EO	22DT	22NL	22NL-OP
Trim Description	—	210DT*	210NL*	110NL-MD* 110NL-WD*
Escutcheon Plate Size	—	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	—
Pull Center to Center	—	—	—	—
Projection	—	1³¹⁄₃₂" (*42mm*)	1³¹⁄₃₂" (*42mm*)	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See page 10)	230EO	230DT	230NL	—
Optional #425 Sex Bolt Quantity for Device	6 (with no trim) 2 (with EO trim)	2	2	6

*** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

	Thumbpiece Key Locks & Unlocks	**Knob** Key Locks & Unlocks	**Lever** Key Locks & Unlocks
			
Product Description	22TP	22K	22L
Trim Description	230TP*	210K	230L*
Escutcheon Plate Size	3" x 12¹⁄₁₆" x ³⁄₃₂" (*76x306x2mm*)	3" x 4²⁵⁄₃₂" x ³⁄₃₂" (*76x121x2mm*)	3" x 6⅜" x ¹⁵⁄₁₆" (*76x162x24mm*)
Pull Center to Center	5½" (*140mm*)	—	—
Projection	2" (*51mm*)	2¹⁵⁄₁₆" (*75mm*)	2⅝" (*67mm*)
ANSI Function	05	08	08
Cylinder Type	1¼" Mortise	Furnished	1¼" Mortise
Optional Trim (See page 10)	230TP-BE	210K-BE	230L-BE
Optional #425 Sex Bolt Quantity for Device	2	2	2

*** ANSI/BHMA A156.3 (2001) Grade 1 Trim**





299F Strike



499F Strike With 9854/9954 Mullion

22-F rim fire exit device for all types of single doors up to 4' x 8' *(1219mm x 3048mm)* or 8' x 8' *(2438mm x 3048mm)* double doors with 9954 or 9854 mullion, UL listed for Fire Exit Hardware. **See page 13 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3, 2001, Grade 1. Fits door stiles as narrow as 4 ⅜" *(111mm)*, see page 12. See opposite page for available outside trim and device functions.

Specifications

Device Functions	Ships ready for all functions; EO, NL, TP, K, L
Device Handing	Non-Handed
Device Lengths	3' *(914mm)* – see minimum door opening chart at bottom of page 4' *(1219mm)* – see minimum door opening chart at bottom of page
Finishes	SP28, SP313
Strikes	299F – Dull Black, single doors 499F – Dull Black, double door with 9954 or 9854 mullion Optional Strike see page 12
Dogging Feature	No mechanical dogging
Electric Options	LX Latchbolt Monitor Switch see page 14 RX Touch Bar Monitor Switch see page 14 RX2 Double Touch Bar Monitor Switch see page 14 ALK Alarm Exit Kit see page 14
Miscellaneous Options	GBK Glass Bead Kit see page 15
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" *(19mm)* – 2 ¼" *(57mm)* Wood & Metal Doors Optional SNB available for device, see next page for quantities. Sex bolts are required on wood fire doors.
Latch Bolt	Deadlocking, ¾" *(19mm)* throw
Device Centerline from Finished Floor	39 13⁄16" *(1011mm)* at center of device 39 11⁄16" *(1008mm)* with Mullion
Device Dimensions	see page 13

See page 16 for How to Order specification

Minimum Door Opening Chart

Stop Height	Strike	Single Door	Double Door w/Mullion	Minimum Door Opening for 3´ device*	Minimum Door Opening w/ALK*
½´´	299F/499F	Yes	—	26.500´´ *(673mm)*	33.250´´ *(845mm)*
½´´	299F/499F	—	KR/9854/9954	27.000´´ *(686mm)*	33.750´´ *(857mm)*
⅝´´	299F/499F	Yes	—	26.750´´ *(679mm)*	33.500´´ *(851mm)*
⅝´´	299F/499F	—	KR/9854/9954	27.125´´ *(689mm)*	33.875´´ *(860mm)*

For 4´ device, add 6´´ *(152mm)

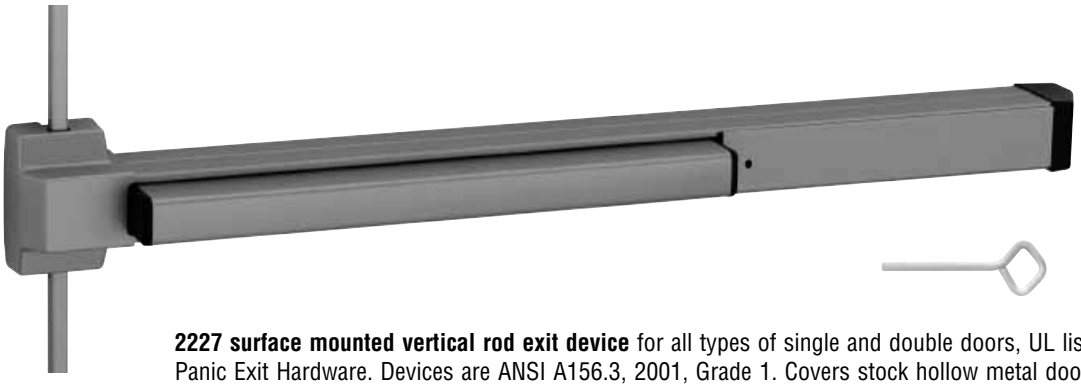
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	Exit only	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 
Product Description	22EO-F	22NL-F	22NL-OP-F
Trim Description	—	210NL**	110NL-MD** 110NL-WD**
Escutcheon Plate Size	—	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	—
Pull Center to Center	—	—	—
Projection	—	1³¹⁄₃₂" (*42mm*)	—
ANSI Function	01	03	03
Cylinder Type	—	Rim	Rim
Optional Trim (See page 10)	230EO	230NL	—
*Optional #425 Sex Bolt Quantity for Device	6 (with no trim) 2 (with EO trim)	2	6
*Additional 425 SNB for 499F strike	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

	Thumbpiece Key Locks & Unlocks 	**Knob** Key Locks & Unlocks 	**Lever** Key Locks & Unlocks 
Product Description	22TP-F	22K-F	22L-F
Trim Description	230TP**	210K	230L**
Escutcheon Plate Size	3" x 12¹⁄₁₆" x ³⁄₃₂" (*76x306x2mm*)	3" x 4²⁵⁄₃₂" x ³⁄₃₂" (*76x121x2mm*)	3" x 6⅜" x ¹⁵⁄₁₆" (*76x162x24mm*)
Pull Center to Center	5½" (*140mm*)	—	—
Projection	2" (*51mm*)	2¹⁵⁄₁₆" (*75mm*)	2⅝" (*67mm*)
ANSI Function	05	08	08
Cylinder Type	1¼" Mortise	Furnished	1¼" Mortise
Optional Trim (See page 10)	230TP-BE	210K-BE	230L-BE
*Optional #425 Sex Bolt Quantity for Device	2	2	2
*Additional 425 SNB for 499F strike	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**



2227 surface mounted vertical rod exit device for all types of single and double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3, 2001, Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. Fits door stiles as narrow as 3 ⅝" *(92mm)*, see page 12. See opposite page for available outside trim and device functions.



299 Top Strike



248L4 Bottom Strike for use with flat threshold



304L Bottom Strike

Top Latch





Bottom Latch

Specifications

Device Functions	Ships ready for all functions; EO, DT, NL, TP, K, L	
Device Handing	Non-Handed	
Device Lengths	3' *(914mm)* – see minimum door opening chart at bottom of page 4' *(1219mm)* – see minimum door opening chart at bottom of page	
Door Height	7' *(2134mm)* – standard door height Extension rods available for door heights up to 10' 12" *(205mm)* 36" (914mm)	
Finishes	SP28, SP313	
Strikes	Top 299 – Dull Black Bottom 248L-4 and 304L – Unfinished Optional Strikes	 see page 12
Dogging Feature	Hex key dogging standard LD Less Dogging	 see page 14
Electric Options	LX Latchbolt Monitor Switch RX Touch Bar Monitor Switch RX2 Double Touch Bar Monitor Switch ALK Alarm Exit Kit	see page 14 see page 14 see page 14 see page 14
Miscellaneous Options	PL Pullman Latch GBK Glass Bead Kit RG Rod Guards LG Latch Guards	see page 14 see page 15 see page 15 see page 15
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" *(19mm)* – 2 ¼" *(57mm)* Wood & Metal Doors Optional SNB available for device, see next page for quantities. Sex Bolts are furnished standard for top and bottom latches.	
Latch Bolt	Deadlocking Anti-friction Top and Bottom Bolt, ⅝" *(16mm)* throw	
Device Centerline from Finished Floor	39 $^{13}/_{16}$" *(1011mm)*	
Door Undercut	¼" *(7mm)* from finished floor recommended, ¾" *(19mm)* maximum or ⅛" *(3mm)* from threshold	
Device Dimensions		see page 13

See page 16 for How to Order specification

Minimum Door Opening Chart

Stop Height	Strike	Single Door	Double Door w/Mullion	Minimum Door Opening for 3´ device*	Minimum Door Opening w/ALK*
½´´	N/A	Yes	Vert. x Vert.	25.875´´ *(657mm)*	32.625´´ *(829mm)*
⅝´´	N/A	Yes	Vert. x Vert.	26.000´´ *(664mm)*	32.750´´ *(832mm)*

For 4´ device, add 6´´ *(152mm)

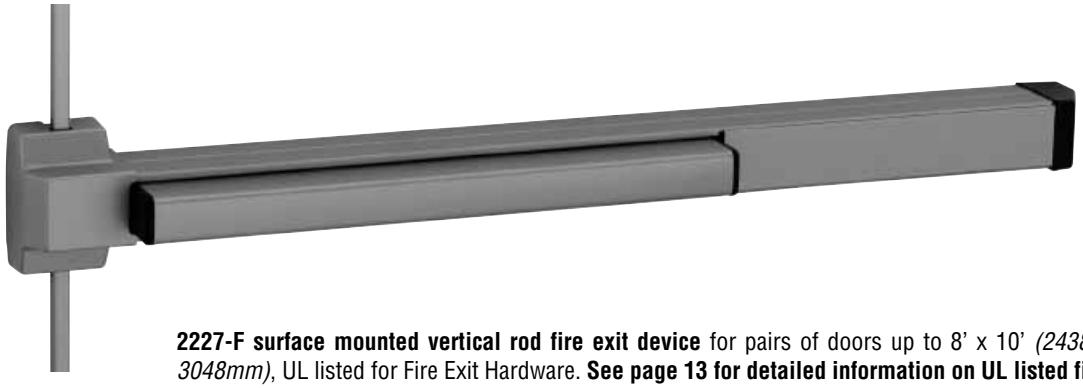
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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required
				
Product Description	2227EO	2227DT	2227NL	2227NL-OP
Trim Description	—	210DT*	210NL*	110NL-MD* 110NL-WD*
Escutcheon Plate Size	—	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	—
Pull Center to Center	—	—	—	—
Projection	—	1³¹⁄₃₂" (*42mm*)	1³¹⁄₃₂" (*42mm*)	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See page 10)	230EO	230DT	230NL	—
Optional #425 Sex Bolt Quantity for Device	6 (with no trim) 2 (with EO trim)	2	2	6

*** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

	Thumbpiece Key Locks & Unlocks	**Knob** Key Locks & Unlocks	**Lever** Key Locks & Unlocks
			
Product Description	2227TP	2227K	2227L
Trim Description	230TP*	210K	230L*
Escutcheon Plate Size	3" x 12¹⁄₁₆" x ³⁄₃₂" (*76x306x2mm*)	3" x 4²⁵⁄₃₂" x ³⁄₃₂" (*76x121x2mm*)	3" x 6⅜" x ¹⁵⁄₁₆" (*76x162x24mm*)
Pull Center to Center	5½" (*140mm*)	—	—
Projection	2" (*51mm*)	2¹⁵⁄₁₆" (*75mm*)	2⅝" (*67mm*)
ANSI Function	05	08	08
Cylinder Type	1¼" Mortise	Furnished	1¼" Mortise
Optional Trim (See pages 10)	230TP-BE	210K-BE	230L-BE
Optional #425 Sex Bolt Quantity for Device	2	2	2

*** ANSI/BHMA A156.3 (2001) Grade 1 Trim**



2227-F surface mounted vertical rod fire exit device for pairs of doors up to 8' x 10' *(2438mm x 3048mm)*, UL listed for Fire Exit Hardware. **See page 13 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3, 2001, Grade 1. Fits door stiles as narrow as 3 5/8" *(92mm)*, see page 12. See opposite page for available outside trim and device functions.



299F Top Strike



304L
Bottom Strike



Top Latch

Bottom Latch

Specifications

Device Functions	Ships ready for all functions; EO, NL, TP, K, L	
Device Handing	Non-Handed	
Device Lengths	3' *(914mm)* – see minimum door opening chart at bottom of page 4' *(1219mm)* – see minimum door opening chart at bottom of page	
Door Height	7' *(2134mm)* – standard door height Extension rods available for door heights up to 10' 12" *(205mm)* 36" *(914mm)*	
Finishes	SP28, SP313	
Strikes	Top 299F (499F LBR) – Dull Black Bottom 304L – Unfinished Optional Strikes	 see page 12
Dogging Feature	No Mechanical Dogging	
Electric Options	LX Latchbolt Monitor Switch RX Touch Bar Monitor Switch RX2 Double Touch Bar Monitor Switch ALK Alarm Exit Kit	see page 14 see page 14 see page 14 see page 14
Miscellaneous Options	LBR Less Bottom Rod GBK Glass Bead Kit RG Rod Guards LG Latch Guards	see page 14 see page 15 see page 15 see page 15
Fasteners & Sex Bolts (SNB)	Includes 1 3/4" *(19mm)* – 2 1/4" *(57mm)* Wood & Metal Doors Optional SNB available for device, see next page for quantities. Sex Bolts are furnished standard for top and bottom latches.	
Latch Bolt	Deadlocking Anti-friction Top and Bottom Bolt, 5/8" *(16mm)* throw	
Device Centerline from Finished Floor	39 13/16" *(1011mm)* at center of device	
Door Undercut	1/4" *(7mm)* from finished floor recommended, 3/4" *(19mm)* 3/8" *(9mm)* maximum	
Device Dimensions		see page 13

See page 16 for How to Order specification

Minimum Door Opening Chart

Stop Height	Strike	Single Door	Double Door w/Mullion	Minimum Door Opening for 3´ device*	Minimum Door Opening w/ALK*
1/2´´	N/A	Yes	Vert. x Vert.	25.875´´ *(657mm)*	32.625´´ *(829mm)*
5/8´´	N/A	Yes	Vert. x Vert.	26.000´´ *(664mm)*	32.750´´ *(832mm)*

For 4´ device, add 6´´ *(152mm)

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	Exit only	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 
Product Description	2227EO-F	2227NL-F	2227-OP-F
Trim Description	—	210NL**	110NL-MD** 110NL-WD**
Escutcheon Plate Size	—	5⅜" x 4²⁵⁄₃₂" x ³⁄₃₂" (*137x121x2mm*)	—
Pull Center to Center	—	—	—
Projection	—	1³¹⁄₃₂" (*42mm*)	—
ANSI Function	01	03	03
Cylinder Type	—	Rim	Rim
Optional Trim (See page 10)	230EO	230NL	—
*Optional #425 Sex Bolt Quantity for Device	6 (with no trim) 2 (with EO trim)	2	6
*Additional 425 SNB for 499F strike	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

	Thumbpiece Key Locks & Unlocks 	**Knob** Key Locks & Unlocks 	**Lever** Key Locks & Unlocks 
Product Description	2227TP-F	2227K-F	22L-F
Trim Description	230TP**	210K	230L**
Escutcheon Plate Size	3" x 12¹⁄₁₆" x ³⁄₃₂" (*76x306x2mm*)	3" x 4²⁵⁄₃₂" x ³⁄₃₂" (*76x121x2mm*)	3" x 6⅜" x ¹⁵⁄₁₆" (*76x162x24mm*)
Pull Center to Center	5½" (*140mm*)	—	—
Projection	2" (*51mm*)	2¹⁵⁄₁₆" (*75mm*)	2⅝" (*67mm*)
ANSI Function	05	08	08
Cylinder Type	1¼" Mortise	Furnished	1¼" Mortise
Optional Trim (See page 10)	230TP-BE	210K-BE	230L-BE
*Optional #425 Sex Bolt Quantity for Device	2	2	2
*Additional 425 SNB for 499F strike	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

210 Series Trim

The 210DT and 210NL have a heavy 10 gauge *(2.4mm*) stainless steel escutcheon. Cylinder must be ordered separately for the 210NL trim. The 210K knob trim has a 10 gauge *(2.4mm*) steel escutcheon and uses the Schlage "A" orbit knob with six pin "C" keyway.

230 Series Trim

The 230EO, 230DT, 230NL and 230TP have a heavy 10 gauge *(2.4mm)* steel escutcheon. The 230L has a cast aluminum ¾" *(19mm)* depth escutcheon. #06 lever style furnished standard, #03 style lever is available. 230L furnished RHR if handing is not specified. Cylinder must be ordered separately for the 230NL, 230TP and 230L trims.

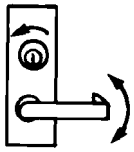
110NL Cylinder Kit

Cylinder kit is available MD for metal doors or WD for wood doors. Metal door application supplied standard if door material is not specified. When ordering with device, specify function NL-OP. Cylinder must be ordered separately.

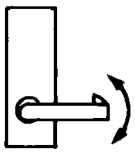
	Exit Only Trim Plate	**Dummy Trim** Pull When Dogged	**Night Latch** Key Retracts Latch Bolt	**Thumbpiece Blank Escutcheon** Always Operable, no cylinder	**Lever Blank Escutcheon** Always Operable, no cylinder	**Knob Blank Escutcheon** Always Operable, no cylinder
						
Trim Description	230EO	230DT**	230NL**	230TP-BE**	230L-BE**	210K-BE
Escutcheon Plate Size	3" x 12 1/16" x 3/32" (*76x306x2mm*)	3" x 12 1/16" x 3/32" (*76x306x2mm*)	3" x 12 1/16" x 3/32" (*76x306x2mm*)	3" x 12 1/16" x 3/32" (*76x306x2mm*)	3" x 6 3/8" x 15/16" (*76x162x24mm*)	3" x 4 25/32" x 3/32" (*76x121x2mm*)
Pull Center to Center	—	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)	—	—
Projection	—	2" (*51mm*)	2" (*51mm*)	2" (*51mm*)	2 5/8" (*67mm*)	2 15/16" (*75mm*)
ANSI Function	01	02	03	—	—	—
Cylinder Type	—	—	Rim	—	—	—
*Optional #425 Sex Bolt Quantity for Device	2	2	6	—	2	2
*Additional 425 SNB for 499F strike	2	2	2	2	2	2

*** Sex Bolts are required for wood fire doors**
**** ANSI/BHMA A156.3 (2001) Grade 1 Trim**

Operation Options



Standard operation, key locks and unlocks lever or knob.
(Classroom)



Blank escutcheon, lever or knob always active.
(Passage)

Lever Designs



#03



#06 Standard

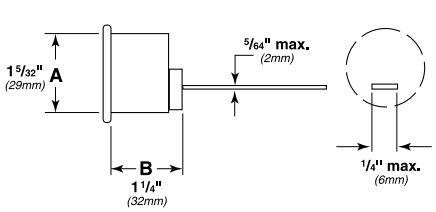
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Cylinders

Cylinders are not furnished with device or trim (unless noted) and must be specified when ordering. Specify finish when ordering separately. Only available with Schlage "C" Keyway. Custom Keying not available.

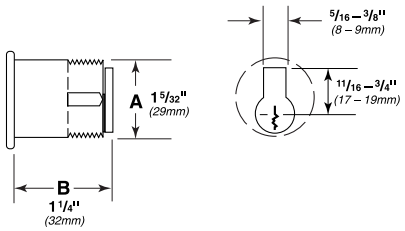
Rim – 3216





Mortise – 3215 (Schlage B502-191 cam)

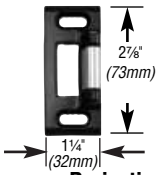




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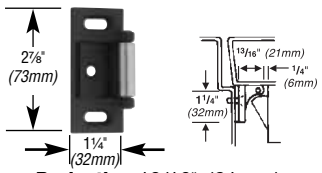
Strikes for Rim Devices

264



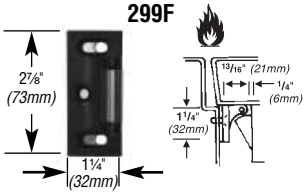
Projection 9/16" *(14mm)*

299



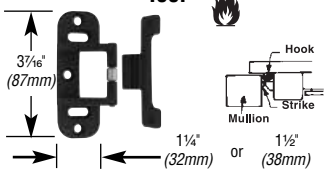
Projection 13/16" *(21mm)*

299F



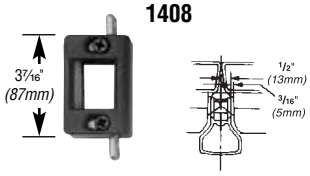
Projection 13/16" *(21mm)*

499F



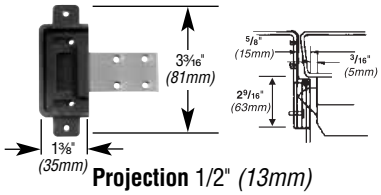
Projection 15/16" *(23mm)*

1408



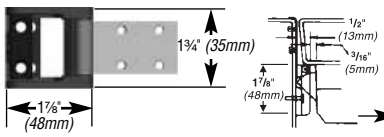
One per pair of doors

1410 – Integral Stop



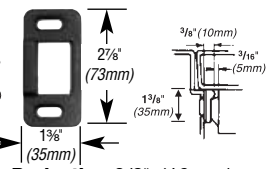
Projection 1/2" *(13mm)*

1439 – Blade Stop***



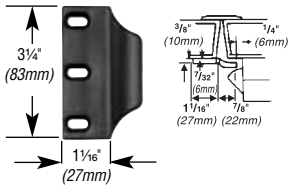
Projection 1/2" *(13mm)*

1606



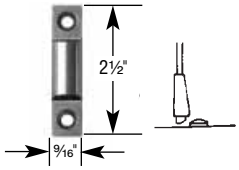
Projection 3/8" *(10mm)*

1609**



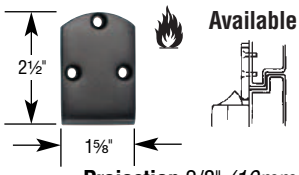
Strikes for Vertical Rod Devices

248L-4



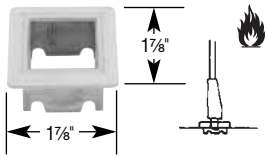
Projection 3/8" *(10mm)*

260U – Flush Transom Only
Available for FEH



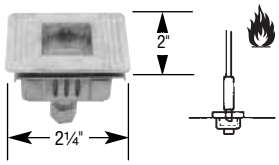
Projection 3/8" *(10mm)*

304L



Mortise 13/16" *(21mm)*

385A



Mortise 2-1/2" *(64mm)*

Strikes 264, 299, 299F and 499F also available for Vertical Rod Devices

DEVICE TYPE	STANDARD SINGLE DOOR		STANDARD DOUBLE DOOR		OPTIONAL SINGLE DOOR		OPTIONAL DOUBLE DOOR	
	STRIKE	STILE	APPLICATION*	STILE	STRIKE	STILE	APPLICATION *	STILE
22	299	4-3/4" *(121mm)*	299 w/4954	4-3/4" *(121mm)*	1439	3-3/16" *(97mm)*	299 w/5654	4-1/4" *(108mm)*
					1410	3-3/16" *(97mm)*	1408 w/5754	3-3/16" *(97mm)*
					1606	3-15/16" *(100mm)*	1606 w/1654	4-1/4" *(108mm)*
					—	—	1609 w/vertical rod**	4-3/8" *(111mm)*
22-F	299F	4-3/8" *(111mm)*	499F w/9954	4-7/8" *(124mm)*	—	—	—	—
2227 LATCH RETRACTION	299 Top 304L Bottom or 248L4 Bottom	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*	260U Top 385A Bottom	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*
2227 PULLMAN LATCH	299 Top 248L4 Bottom	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*	260U Top	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*
2227-F	299F Top 304L Bottom	3-5/8" *(92mm)*	Two Vertical Rods	3-5/8" *(92mm)*	—	—	—	—

***Mullion information, refer to General and Auxiliary Catalog.**

****Not for UL Fire Exit Hardware. Must be used with a coordinator.**

***** Replaces 1409 Strike**

NOTE: On a Rim/Vertical Rod application for a pair of doors, the 1609 strike extends off the edge of the door into the opening.

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UL Listed Fire Exit Hardware Label and Opening Size

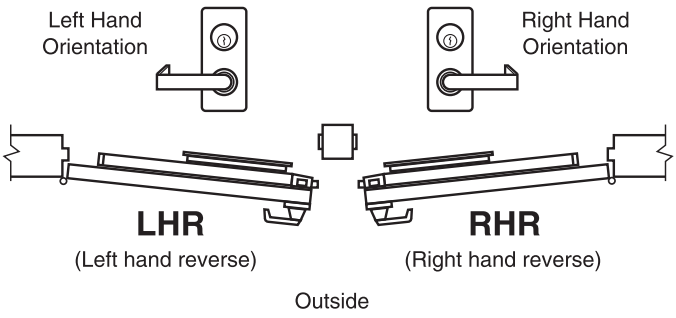
Exit Device	Door Material	Single Door		Double Door					
				With Mullion		**Same Direction		Double Egress	
22-F	HM	3 Hour	4' x 8'	3 Hour	8' x 8'	—	—	—	—
22-F	WD	90 MIN.	4' x 8'	90 Min.	8' x 8'	—	—	—	—
2227-F	HM	—	—	—	—	90 Min.	8' x 10'	3 Hour	8' x 10'
2227-F	WD	—	—	—	—	*20 Min.	8' x 10'	*90 Min.	8' x 9'
2227-F	WD	—	—	—	—	*90 Min.	8' x 9'	—	—
2227-F-LBR	HM	—	—	—	—	90 Min.	8' x 10'	3 Hour	8' x 10'
2227-F-LBR	WD	—	—	—	—	*20 Min.	8' x 10'	*90 Min.	8' x 9'
2227-F-LBR	WD	—	—	—	—	*90 Min.	8' x 9'	—	—

***UL listing for wood doors may be for a specific door manufacturer. Consult wood door manufacturers for current UL listings**
****Currently, no door manufacturer offers a listing over 90 minutes with doors swinging same direction.**

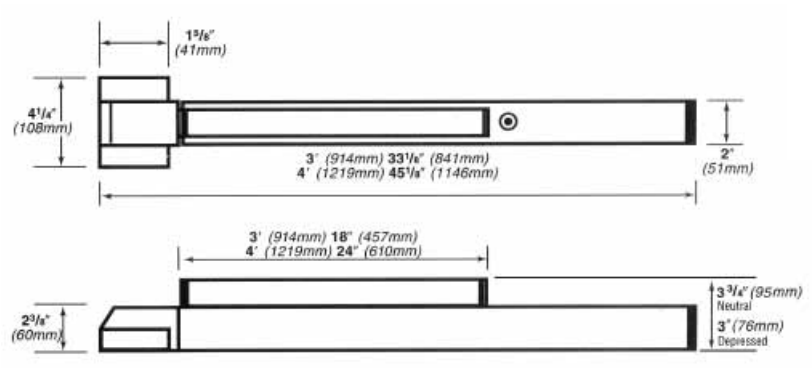
ANSI Grade, Type & Function

Function	Grade 1, Type 1	Grade 1, Type 2
01	22E0, 22E0-F	2227E0, 2227E0-F
02	22DT	2227DT
03	22NL, 22NL-F	2227NL, 2227NL-F
05	22TP, 22TP-F	2227TP, 2227TP-F
08	22K, 22K-F	2227K, 2227K-F
08	22L, 22L-F	2227L, 2227L-F

Door Handing

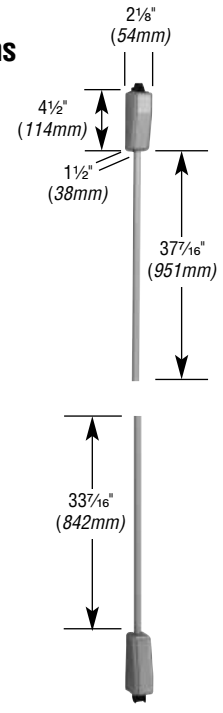


Dimensions



Vertical Rod Dimensions

Vertical rods are
½" (*13mm*) square tubing



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Less Bottom Rod – LBR

LBR option for fire exit devices is available using a spring loaded auxiliary latch bolt installed in the lower door edge. When exposed to heat the auxiliary latch bolt releases, keeping the doors in alignment and closed during a fire. See page 13 for detailed information on UL listed fire exit hardware label and door opening size information.

LBR devices for fire exit devices ship standard with a 499F top strike and less bottom strike.

LBR devices must be ordered in pairs of vertical rod devices, or must be used in conjunction with an approved automatic or constant latching flush bolt.

Less Dogging – LD

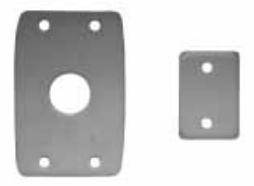
Less dogging ia available on all 22 series panic exit devices. To order, use prefix LD. Example LD22EO

Pullman Latch – PL

Pullman latches are always extended and are most commonly used in conjunction with electric strikes and LBR-less bottom rod applications. Not available with fire rated exit devices. Pullman latches do not deadlock and are not recommended for applications where security may be compromised. When the PL is specified the standard latches are replaced with Pullman style latches at an additional charge. See Pricebook for details.

Glass Bead Kit – GBK

Glass Bead kits are used on doors with raised glass beads. Each kit consists of ¼" *(6mm)* shim sets. GBK for surface vertical rod devices ship with ⅛" *(3mm)* shims for rod guides. Shims are not required for Top and Bottom latches

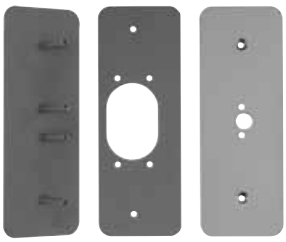


To order, specify:

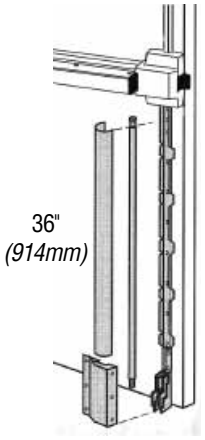
1. With device specify GBK in device description.
2. To order separately, specify model 22GBK-R (rim), 22GBK-499F (rim), 22GBK-SV (vertical rod)
3. Finish, SP28 or SP313

Cover Plate Kit – 229

Kit contains inside and outside plates for hinge stile cutouts, an inside plate for the lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations.



Vertical Rod and Latch Guard — RG-27

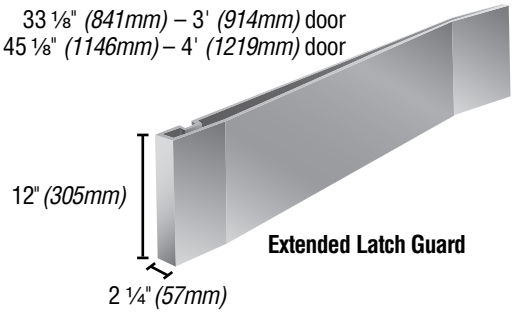


Rod Guard

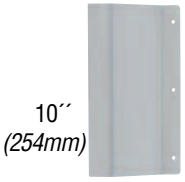
Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. If bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.

In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easiliy with the bumpers of a wheelchair. The standard latch guard features a 45˚ ramp and continuous ramp on full width or extended latch guard.

All stainless steel construction in US32D finish. Latch guards can cover latches as large as 1¼"W x 10"H x 1⅞" projection. For use on Hollow Metal Fire-Rated Doors.



Extended Latch Guard



Latch Guard

Models

RGO	— Rod guard only (Projection 1 3⁄16" *(30mm)*).
RG-27	— Rod and latch guard.
RG-27-3	— 3' *(914mm)* Rod Guard and Extended Latch Guard.
RG-27-4	— 4' *(1219mm)* Rod Guard and Extended Latch Guard.
LGO	— Latch guard only.
LGO-3	— 3' *(914mm)* Extended latch guard only.
LGO-4	— 4' *(1219mm)* Extended latch guard only.

Note: Not for use on wood fire doors

To Order, Specify:

1. Model number.
2. Handing (except on RGO).
3. Door material if other than Hollow Metal.
4. Optional sex bolt mounting available.

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Alarm Kit – ALK



The ALK battery alarm kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key thus allowing the exit device to be set in an armed or disarmed mode. The horn is rated at 85 decibel. Standard Hex Key dogging not available when using an ALK.

The key switch uses a standard 1¼" (32mm) mortise cylinder with a straight cam (Schlage Cam reference B502-191). The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal.

Alarm kits are furnished standard with a RX-request to exit switch. Optional LX-Latch bolt monitoring, or RX2-double request to exit monitor switch are available. LX latch bolt monitoring is recommended for use with surface vertical rod exit devices.

The ALK includes "EMERGENCY EXIT ONLY, ALARM WILL SOUND" decal for application on the door.

The ALK is available with two optional circuit boards. External Inhibit (EI) allows for the use of external switch to be used to arm, disarm and reset the alarm. Auto Reset (AR) rearms the alarm after a preset time. Auto Reset is available in three factory set times, 1½, 3 or 6 minutes.

The ALK can also be hard wired and powered using a PS9 power supply. See PS9 on this page for additional information.

To Order, Specify:

1. With device, specify ALK
2. To order separately, specify model 22ALK
3. Specify Options EI or AR, Example: ALK-AR. For AR option specify factory set time (1½, 3 or 6 minutes)
4. Door size other than 3'
5. Switch if other than RX
6. Finish, SP28 or SP313

Minimum door opening sizes on ALK applications – refer to device pages 2, 4, 6 and 8.

Power Supply – PS9

The PS9 is an AC power supply that provides 9 VDC power to operate the ALK alarm kit. The unit will power one or two alarm kits. Included is a 9-volt sealed battery that provides backup power in case of an AC power failure.



Electrical Power Transfer – EPT



UL Listed (GVUX) – Miscellaneous Fire Door Accessories

Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suite for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires.

Door applications:

up to 5" butt hinge – 180˚ swing
5½" butt hinge – 130˚ swing
6" butt hinge – 110˚ swing
¾" offset pivot – 180˚ swing

Not for use with swing clear hinges or center hung pivots

Finishes

SP28 (sprayed aluminum)
or SP313 (sprayed duranodic).

Dimensions

Housing	9" x 1 ¼" x 1 ⅝" *(229mm x 32mm x 38mm)*
EPT-2	Two 18 gauge wires Up to 2 amps @ 24 VDC with a 16 amp maximum surge
EPT-10	Ten 24 gauge wires, Up to 1 amp @ 24VDC with a 16 amp maximum surge

To order, specify:

1. EPT-2 or EPT-10.
2. Finish, SP28 or SP313.

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Request to Exit — RX



The RX (Request to Exit) feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the pushpad.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The RX switch option should not be used to control a load, but as a signaling switch (0.5 amps. resistive maximum).

The RX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

1. Standard – Use prefix RX, example RX22EO
2. Low Current – Use prefix RX-LC, example RX-LC22EO

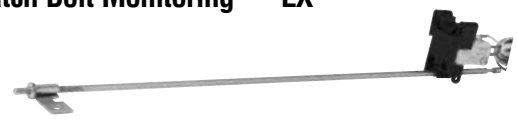
Double Request to Exit — RX2

The RX2 feature uses 2 RX switches.

To Order, Specify:

1. Standard – Use prefix RX2, example RX22EO

Latch Bolt Monitoring — LX



The LX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the latch bolt.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The LX switch option should not be used to control a load, but as a signaling switch (0.5 amps. resistive maximum).

The LX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

1. Standard – Use prefix LX, example LX22EO
2. Low Current – Use prefix LX-LC, example LX-LC22EO

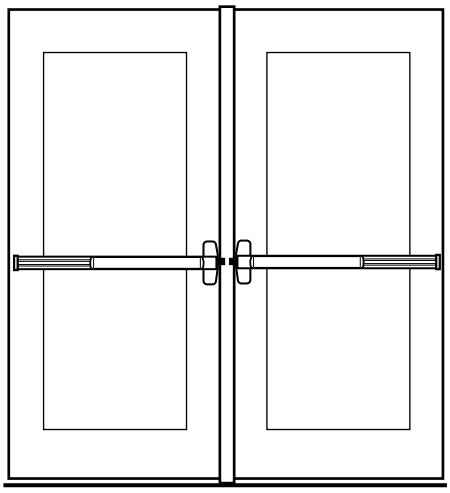
Electrical Rating for all Switches:

- Standard – up to 0.5 Amp @ 24VDC Maximum
- Low Current (LC) - up to .05 Amp @ 24VDC Maximum

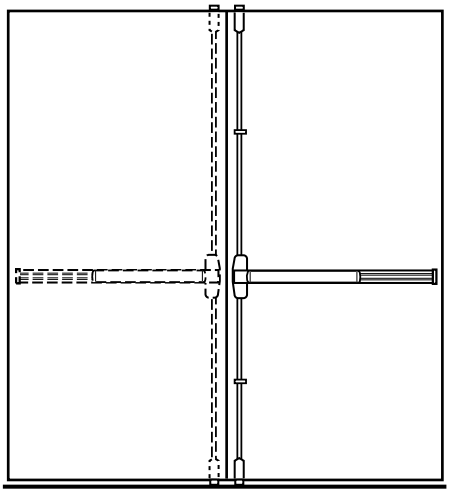
Note: All Switches can be either factory or field installed

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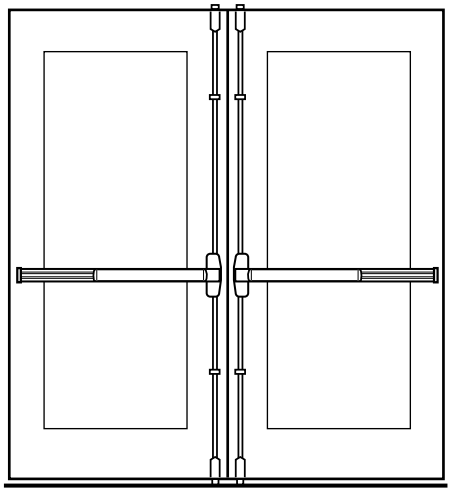
Popular Double Door Applications



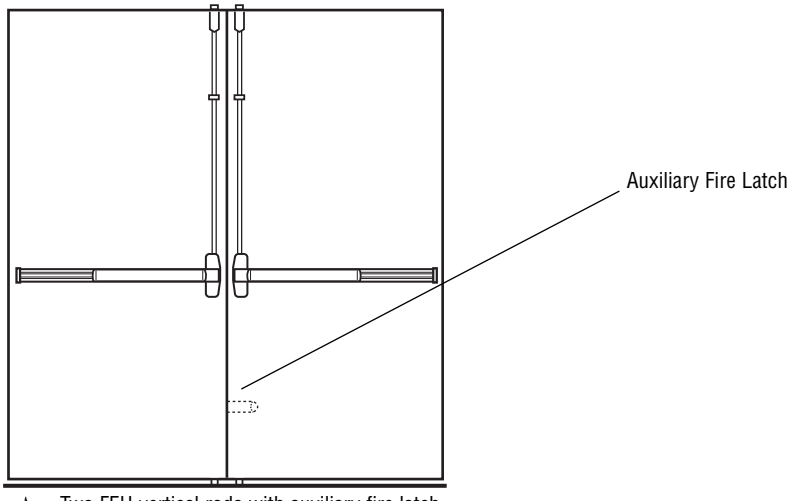
Two rim devices with mullion—same direction, panic or fire device



Two vertical rods—double egress, panic or fire device

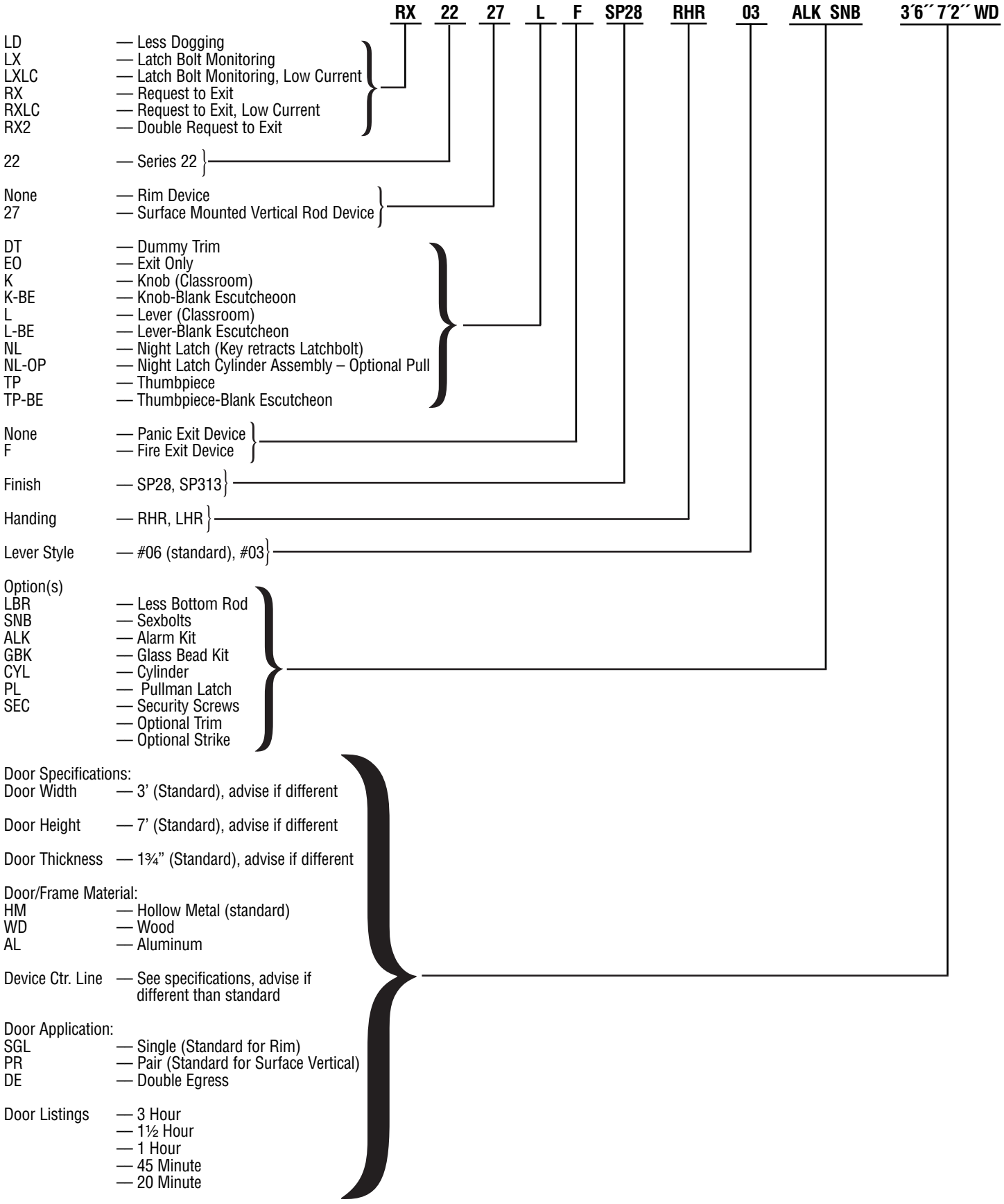


Two surface mounted vertical rod devices—same direction, panic or fire device (do not use with overlapping astragal)



Two FEH vertical rods with auxiliary fire latch—LBR option

Nomenclature – How To Order



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22 Series Exit Devices

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33A/35A Series Exit Device



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Finishes*



Color	US Number	BHMA Number
Chromium, Polished	US26	625
Anodized, Aluminum	US28	628
Chromium, Dull	US26D	626
Brass, Polished	US3	605
Brass, Dull	US4	606
Bronze, Dull	US10	688
Anodized Duranodic (Dark Bronze)	313AN	710
Anodized Black	315AN	—

Pushpad Options — Knurled —
Embossed "Push," bronze or stainless steel,
Braille (Caution-Stairwell), satin stainless steel
SS – (EMERGENCY EXIT – PUSH TO OPEN AND SOUND ALARM)

*** NOTE:** Durable powder coated finishes available at specific special request. PLEASE CONTACT FACTORY.

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Introduction

The proper selection and application of exit hardware, in addition to safety, are major concerns to all responsible manufacturers. Exit devices are a critical part of a door opening or access system and will provide safe and reliable service when properly applied and maintained. It is the policy of Von Duprin to design and manufacture exit devices to a high standard of quality and reliability in accordance with accepted U.S. domestic and international standards. All 33A and 35A series exit devices are UL listed for Panic Exit or Fire Exit Hardware, and are tested in accordance to ANSI A156.3, 1994, Grade I.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended that whenever an unusual application condition exists, or when any modification of a product is considered, that our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.



33A Series features grooved mechanism case.

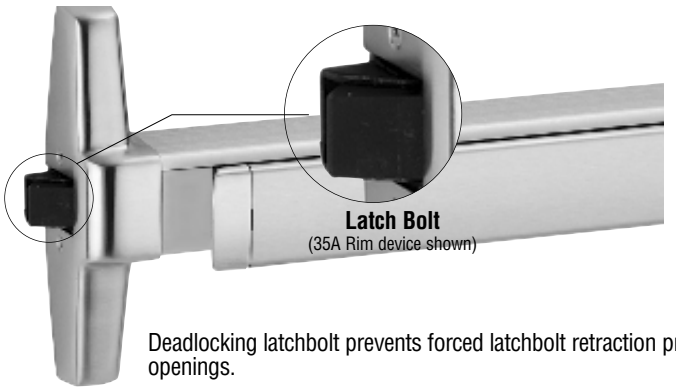


35A Series features smooth mechanism case.

Von Duprin pushpad exit devices are available in two external surface styles, designated 33A series and 35A series.

The two styles are mechanically and dimensionally identical and provide a wide selection of appearance options.

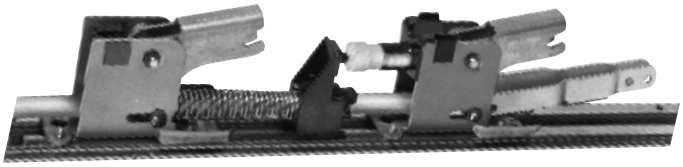
Deadlocking Latchbolt



Latch Bolt
(35A Rim device shown)

New!

Deadlocking latchbolt prevents forced latchbolt retraction providing higher security for your openings.



The Quiet One®

A fluid dampener decelerates the pushpad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all 33A/35A series exit devices.





1439 Roller

33A and 35A for all types of single and double doors with mullion, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 35A has a smooth mechanism case and the 33A has grooved case. The rim device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

33A/35A fits door stiles as narrow as 1 ¾" (44mm). Newly designed device has a one piece center case cover.

The 33A/35A devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See inside cover for finish chips.

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	1439 – Dull Black Optional Strikes – see page 20	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging, LD Less Dogging	see page 26 see page 26
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction GBK Glass Bead Kit	see page 26 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking, ¾" (19mm) throw	
Device Centerline from Finished Floor	39 13/16" (1011 mm) 39 11/16" (1008 mm) with Mullion	
Center Case Dimensions	8 3/16" x 2 13/32" x 1 9/16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)	

See page 31 for How to Order specification

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	Exit Only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required
				
Product Description	33A-EO 35A-EO	33A-DT 35A-DT	33A-NL 35A-NL	33A-NL-OP 35A-NL-OP
Trim Description	—	386DT	386NL	388
Base Size	—	7 15⁄32"h x 1 5⁄8"w (*190x41mm*)	7 15⁄32"h x 1 5⁄8"w *(190x41mm)*	7 1⁄2"h x 1 11⁄16"w *(190x43mm)*
Grip Size	—	8 1⁄2"h x 4 5⁄16"w (*216x110mm)*	8 1⁄2"h x 4 5⁄16"w *(216x110mm)*	—
Projection	—	2 7⁄16" (*62mm)*	2 7⁄16" (*62mm)*	1" (*25mm)*
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See page 19)	—	x360L-DT x550DT x IVES 8190	—	X550DT x IVES 8190 10”

	Lever Key Locks and Unlocks	**Lever Blank Escutcheon** Always Operable (No Cylinder)	**Thumbturn** Key Locks and Unlocks	**Thumbturn** Always Operable (No Cylinder)
				
Product Description	33A-L 35A-L	33A-L-BE 35A-L-BE	33A-T 35A-T	33A-T-BE 35A-T-BE
Trim Description	360L	360L-BE	360T	360T-BE
Base Size	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm)*	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm)*	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm)*	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm)*
Grip Size	—	—	—	—
Projection	3 (*76mm)*	3" (*76mm)*	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*
ANSI Function	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	1 1⁄4" Mortise	—	1 1⁄4" Mortise	—
Optional Trim (See page 19)	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate

For optional trims and functions see page 19



27 Top Latch





27 Bottom Latch



266
Top Strike



248L-4
Bottom Strike for use with Threshold



304L
Bottom Strike

3327A and 3527A for all types of single and double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 3527A has a smooth mechanism case and the 3327A has grooved case. The surface vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3327A/3527A fits door stiles as narrow as 1 ¾" (44mm). Newly designed device has a one piece center case cover.

The 3327A/3527A devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 266 – Dull Black, Bottom – 248L4 & 304L – Unfinished Optional Strikes – see page 20	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging LD Less Dogging	see page 26 see page 26
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction LBR Less Bottom Rod GBK Glass Bead Kit PL Pullman Latch	see page 26 see page 27 see page 27 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device) #325 SNB furnished for top and bottom latches	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8 3⁄16" x 2 13⁄32" x 1 9⁄16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top and Bottom Latch	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	½" square tubing, standard rods accommodate 7'(2134mm) door Top rod length is 34 15⁄16" (887mm) Bottom rod length is 31 ¼"(794mm) Extension rods available 1' (205mm) or 3'(914mm) for doors over 7' One piece top rod available for 8'(2438mm)-10'(3048mm) door	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged	**Night Latch** Key retracts latchbolt	**Night Latch** Key retracts latchbolt Optional Pull Required	**Thumbturn** Key locks & unlocks
					
Product Description	3327A-EO 3527A-EO	3327A-DT 3527A-DT	3327A-NL 3527A-NL	3327A-NL-OP 3527A-NL-OP	3327A-TL 3527A-TL
Trim Description	—	386DT	386NL	388	374T x 386
Base Size	—	7 15⁄32"h x 1 5⁄8"w (*190x41mm*)	7 15⁄32"h x 1 5⁄8"w (*190x41mm*)	7 1⁄2"h x 1 11⁄16"w (*190x43mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)
Grip Size	—	8 1⁄2"h x 4 5⁄16"w (*216x110mm*)	8 1⁄2"h x 4 5⁄16"w (*216x110mm*)	—	—
Projection	—	2 7⁄16" (*62mm*)	2 7⁄16" (*62mm*)	1" (*25mm*)	1 13⁄16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	——	x550 DT x IVES 8190 10"	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder)	**Lever** Key Locks & Unlocks	**Lever-Blank Escutcheon** Always Operable (No Cylinder)	**Thumbturn** Key Locks & Unlocks	**Thumbturn** Always Operable (No Cylinder)
					
Product Description	3327A-TL-BE 3527A-TL-BE	3327A-L 3527A-L	3327A-L-BE 3527A-L-BE	3327A-T 3527A-T	3327A-T-BE 3527A-T-BE
Trim Description	374T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)	7 1⁄2"h x 1 11⁄16"w x 7⁄8"d (*190x43x22mm*)
Grip Size	8 1⁄2"h x 4 5⁄16"w (*216x110mm*)	—	—	—	—
Projection	1 13⁄16" (*46mm*)	3" (*76mm*)	3" (*76mm*)	1 13⁄16" (*46mm*)	1 13⁄16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
374T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19

27 Top Latch





3327A-F and 3527A-F for all types of double doors up to 8' x 10' (2438mm x 2540mm), UL listed for Fire Exit Hardware. **See page 28 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 3527A-F has a smooth mechanism case and the 3327A-F has grooved case. The surface vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3327A-F/3527A-F fits door stiles as narrow as 2 3⁄16"(56 mm). Newly designed device has a one piece center case cover.

The 3327A-F/3527A-F devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.



27 Bottom Latch



299F
Top Strike



304L
Bottom Strike for use with Threshold



499F
(LBR only)

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 299F(499F LBR) – Dull Black, Bottom – 304L – Unfinished Optional Strikes – see page 20	
Dogging Feature	No mechanical Dogging, EL option available	
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction **LBR Less Bottom Rod** GBK Glass Bead Kit	see page 26 **see page 27** see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device) #325 SNB furnished for top and bottom latches	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8 3⁄16" x 2 13⁄32" x 1 9⁄16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top and Bottom Latch	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	½" square tubing, standard rods accommodate 7'(2134mm) door Top rod length is 34 15/16" (887mm) Bottom rod length is 31 ¼"(794mm) Extension rods available 1' (205mm) or 3'(914mm) for doors over 7' One piece top rod available for 8'(2438mm)-10'(3048mm) door	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged (Not recommended for Fire Device) 	**Night Latch** Key retracts latchbolt 	**Night Latch** Key retracts latchbolt Optional Pull Required 	**Thumbturn** Key locks & unlocks 
Product Description	3327A-EO-F 3527A-EO-F	3327A-DT-F 3527A-DT-F	3327A-NL-F 3527A-NL-F	3327A-NL-OP-F 3527A-NL-OP-F	3327A-TL-F 3527A-TL-F
Trim Description	—	386DT	386NL	388	374T x 386
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16" (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1 1/4" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	——	x550 DT x IVES 8190 10"	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder) 	**Lever** Key Locks & Unlocks 	**Lever-Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbturn** Key Locks & Unlocks 	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder) 
Product Description	3327A-TL-BE-F 3527A-TL-BE-F	3327A-L-F 3527A-L-F	3327A-L-BE-F 3527A-L-BE-F	3327A-T-F 3527A-T-F	3327A-T-BE-F 3527A-T-BE-F
Trim Description	374T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1 1/4" Mortise	—	1 1/4" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
374T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19

47 Top Latch





3347A and 3547A for all types of single and double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 3547A has a smooth mechanism case and the 3347A has grooved case. The concealed vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3347A/3547A fits door stiles as narrow as 1 ¾"(44 mm), wood door stiles as narrow as 4"(102mm). Newly designed device has a one piece center case cover.

The 3347A/3547A devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.



47 Bottom Latch

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 338 – Unfinished, Bottom – 385A – Unfinished Optional Strikes – see page 20	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging LD Less Dogging	see page 26 see page 26
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction LBR Less Bottom Rod GBK Glass Bead Kit PL Pullman Latch	see page 26 see page 27 see page 27 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006mm) Standard, Adjustable from 35 5/8"(905mm) to 49 5/8"(1260mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8 3/16" x 2 13/32" x 1 9/16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8"(2027mm) to 8'4"(2533mm) Bottom rod adjustable from 35 ⅝"(905mm) to 49 ⅝"(1260mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)	



338
Top Strike



385A
Bottom Strike



283

For use with wood frame

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged 	**Night Latch** Key retracts latchbolt 	**Night Latch** Key retracts latchbolt Optional Pull Required 	**Thumbturn** Key locks & unlocks 
Product Description	3347A-EO 3547A-EO	3347A-DT 3547A-DT	3347A-NL 3547A-NL	3347A-NL-OP 3547A-NL-OP	3347A-TL 3547A-TL
Trim Description	—	386DT	386NL	388	376T x 386
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16"w (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	—	x550 DT x IVES 8190 10"	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder) 	**Lever** Key Locks & Unlocks 	**Lever-Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbturn** Key Locks & Unlocks 	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder) 
Product Description	3347A-TL-BE 3547A-TL-BE	3347A-L 3547A-L	3347A-L-BE 3547A-L-BE	3347A-T 3547A-T	3347A-T-BE 3547A-T-BE
Trim Description	376T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
376T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19



47 Top Latch





47 Bottom Latch



338
Top Strike



385A
Bottom Strike

3347A-F and 3547A-F for all types of double doors up to 8' x 10' (2438mm x 2540mm), UL listed for Fire Exit Hardware. **See page 28 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 3547A-F has a smooth mechanism case and the 3347A-F has grooved case. The concealed vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3347A-F/3527A-F fits door stiles as narrow as 3 ½"(90mm). Newly designed device has a one piece center case cover.

The 3347A-F/3547A-F devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 338 – Unfinished, Bottom – 385A – Unfinished Optional Strikes – see page 20	
Dogging Feature	No mechanical Dogging, EL option available	
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction **LBR Less Bottom Rod** GBK Glass Bead Kit	see page 26 **see page 27** see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8 3⁄16" x 2 13⁄32" x 1 9⁄16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8"(2027mm) to 8'4"(2533mm) Bottom rod adjustable from 35 ⅝"(905mm) to 49 ⅝"(1260mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged (Not recommended for Fire Device) 	**Night Latch** Key retracts latchbolt 	**Night Latch** Key retracts latchbolt Optional Pull Required 	**Thumbturn** Key locks & unlocks 
Product Description	3347A-EO-F 3547A-EO-F	3347A-DT-F 3547A-DT-F	3347A-NL-F 3547A-NL-F	3347A-NL-OP-F 3547A-NL-OP-F	3347A-TL-F 3547A-TL-F
Trim Description	—	386DT	386NL	388	376T x 386DT
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16"w (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	—	x550 DT x IVES 8190 10”	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder) 	**Lever** Key Locks & Unlocks 	**Lever-Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbturn** Key Locks & Unlocks 	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder) 
Product Description	3347A-TL-BE-F 3547A-TL-BE-F	3347A-L-F 3547A-L-F	3347A-L-BE-F 3547A-L-BE-F	3347A-T-F 3547A-T-F	3347A-T-BE-F 3547A-T-BE-F
Trim Description	376T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
376T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19



48 Top Latch





48 Bottom Latch



338
Top Strike



385A
Bottom Strike

3348A and 3548A for all types of single and double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 3548A has a smooth mechanism case and the 3348A has grooved case. The concealed vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3348A/3548A fits door stiles as narrow as 1 ¾"(44 mm). Newly designed device has a one piece center case cover.

The 3348A/3548A devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 338 – Unfinished, Bottom – 385A – Unfinished Optional Strikes – see page 20	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging LD Less Dogging	see page 26 see page 26
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction GBK Glass Bead Kit	see page 26 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ¾" (19mm) throw Deadlocking Anti-friction Top & Bottom Bolt 1½" (38mm) throw	
Device Centerline from Finished Floor	39 5/8" (1006mm) Standard, Adjustable from 35 5/8"(905mm) to 49 5/8"(1260mm)	
Door Undercut	¾" (19mm)	
Center Case Dimensions	8 3/16" x 2 13/32" x 1 9/16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8"(2027mm) to 8'4"(2533mm) Bottom rod adjustable from 35 5/8"(905mm) to 49 5/8"(1260mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)	

See page 31 for How to Order specification

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	Exit Only	**Dummy Trim** Pull when dogged	**Night Latch** Key retracts latchbolt	**Night Latch** Key retracts latchbolt Optional Pull Required	**Thumbturn** Key locks & Unlocks
					
Product Description	3348A-EO 3548A-EO	3348A-DT 3548A-DT	3348A-NL 3548A-NL	3348A-NL-OP 3548A-NL-OP	3348A-TL 3548A-TL
Trim Description	—	386DT	386NL	388	376T x 386
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16"w (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	—	x550 DT x IVES 8190 10"	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder)	**Lever** Key Locks & Unlocks	**Lever-Blank Escutcheon** Always Operable (No Cylinder)	**Thumbturn** Key Locks & Unlocks	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder)
					
Product Description	3348A-TL-BE 3548A-TL-BE	3348A-L 3548A-L	3348A-L-BE 3548A-L-BE	3348A-T 3548A-T	3348A-T-BE 3548A-T-BE
Trim Description	376T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
376T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19

48F Top Latch





3348A-F and 3548A-F for all types of double doors up to 8' x 10' (2438mm x 2540mm), UL listed for Fire Exit Hardware. **See page 28 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 3548A-F has a smooth mechanism case and the 3348A-F has grooved case. The concealed vertical rod device is non-handed except when the SS (Signal Switch) option is used. See opposite page for available outside trim and device functions.

3348A-F/3548A-F fits door stiles as narrow as 3 ½"(90mm). Newly designed device has a one piece center case cover.

The 3348A-F/3548A-F devices are available in the following finishes; US3, US4, US10, US26, US26D, US28, 313AN and 315AN. See the inside cover for finish chips.



48F Bottom Latch



338
Top Strike



385A
Bottom Strike

Specifications

Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top – 338 – Unfinished, Bottom – 385A – Unfinished Optional Strikes – see page 20	
Dogging Feature	No mechanical Dogging, EL option available	
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch SS Signal Switch EL Electric Latch Retraction ALK Alarm Exit Kit	see page 22 see page 22 see page 22 see page 23 see page 23 see page 22
Miscellaneous Options	PN Pneumatic Latch Retraction GBK Glass Bead Kit	see page 26 see page 27
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (44mm) – 2 ¼" (57mm) Wood & Metal Doors #425 SNB furnished standard for end case #325 SNB furnished standard for EO (exit only device)	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt ¾" (19mm) throw Deadlocking Anti-friction Top & Bottom Bolt 1½" (38mm) throw	
Device Centerline from Finished Floor	39 5/8" (1006mm) Standard, Adjustable from 35 5/8" (905mm) to 49 5/8" (1260mm)	
Door Undercut	¾" (7mm)	
Center Case Dimensions	8 3/16" x 2 13/32" x 1 9/16" (208mm x 62mm x 40mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8"(2027mm) to 8'4"(2533mm) Bottom rod adjustable from 35 5/8"(905mm) to 49 5/8"(1260mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)	

See page 31 for How to Order specification

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	Exit only	**Dummy Trim** Pull when dogged (Not recommended for Fire Device) 	**Night Latch** Key retracts latchbolt 	**Night Latch** Key retracts latchbolt Optional Pull Required 	**Thumbturn** Key locks & Unlocks 
Product Description	3348A-EO-F 3548A-EO-F	3348A-DT-F 3548A-DT-F	3348A-NL-F 3548A-NL-F	3348A-NL-OP-F 3548A-NL-OP-F	3348A-TL-F 3548A-TL-F
Trim Description	—	386DT	386NL	388	376T x 386
Base Size	—	7 15/32"h x 1 5/8"w (*190x41mm*)	7 15/32"h x 1 5/8"w (*190x41mm*)	7 1/2"h x 1 11/16"w (*190x43mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	—	8 1/2"h x 4 5/16"w (*216x110mm*)	8 1/2"h x 4 5/16"w (*216x110mm*)	—	8 1/2"h x 4 5/16"w (*216x110mm*)
Projection	—	2 7/16" (*62mm*)	2 7/16" (*62mm*)	1" (*25mm*)	1 13/16" (*46mm*)
ANSI Function	01	02	03	03	11-12 Field Selectable
Cylinder Type	—	—	Rim	Rim	1¼" Mortise
Optional Trim (See page 19)	—	x 360L-DT x550 DT x IVES 8190	—	x550 DT x IVES 8190 10”	x 392-6

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder) 	**Lever** Key Locks & Unlocks 	**Lever-Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbturn** Key Locks & Unlocks 	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder) 
Product Description	3348A-TL-BE-F 3548A-TL-BE-F	3348A-L-F 3548A-L-F	3348A-L-BE-F 3548A-L-BE-F	3348A-T-F 3548A-T-F	3348A-T-BE-F 3548A-T-BE-F
Trim Description	376T-BE x 386	360L	360L-BE	360T	360T-BE
Base Size	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)	7 1/2"h x 1 11/16"w x 7/8"d (*190x43x22mm*)
Grip Size	8 1/2"h x 4 5/16"w (*216x110mm*)	—	—	—	—
Projection	2 7/16" (*62mm*)	3" (*76mm*)	3" (*76mm*)	1 13/16" (*46mm*)	1 13/16" (*46mm*)
ANSI Function	—	08 or 09 Field Selectable	—	11 or 12 Field Selectable	—
Cylinder Type	—	1¼" Mortise	—	1¼" Mortise	—
Optional Trim (See page 19)	x 392-6	—	E360L-BE See Page 18	—	E360T-BE See Page 18

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
376T used on Wood Door require #10-WDA cover plate.

For optional trims and functions see page 19

Lever Design Options



#01



#02



#03



#05



#06
Standard



#07



#12
Handed



#16



#17



#18

To order, specify:

1. Use suffix lever number, example 3327A-L x 03.

Operation Options — 360 Series Lever and Thumbturn



Standard operation, key locks and unlocks lever or thumbturn. Use dogged* mortise cylinder straight cam. (Classroom)



Night latch operation, lever or thumbturn retracts latch for NL function. Use undogged* mortise cylinder straight cam. (Storeroom)



Blank escutcheon, lever or thumbturn always active. Use BE suffix, i.e., 360L-BE. (Passage)



Blank Escutcheon, rigid lever. Use DT suffix, i.e., 360L-DT.

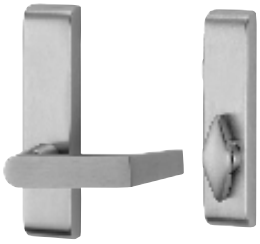
Operation Options — 374T/376T Series Thumbturn Control



Standard operation, key locks and unlocks thumbturn. Optional operation, key unlocks thumbturn, re-locks when key is removed. This operation is created by changing the cylinder plate included with control. Use 1¼" mortise cylinder with a straight cam. Schlage cam reference B502-191.

*** See page 28 for mortise cylinder information.**

E360 Series Controls



Options:

- Available in all device finishes
- 24VDC Solenoid……(.5 amp draw)
- Fail Safe (FS) or Fail Secure (FSE)
- Blank Escutcheon (BE) only

The E360 series controls provide the same choice of lever or thumbturn control of the 33A/35A series exit device series. Additionally, these trims have the advantage of being electrically controllable by a remote switching device, an access control system or automatic fire alarm system. The trim operates with a rotary solenoid that controls the locking cam the same way the standard cylinder works. These trims are available as –BE (Blank Escutcheon) function only. These trims are designed for use with the rim, surface vertical and concealed vertical 33A/35A device series.

To order, specify:

1. FSE or FS
2. Handing (Lever control)
3. EPT-2 Power Transfer or Electric Hinge will be used

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	Lever Key Locks & Unlocks	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt	**Thumbturn** Key Locks & Unlocks	**Thumbturn** Key Locks & Unlocks
					
Trim Description	360L-DT	388 x 550DT	388 x IVES 8190 10”	360T x 550DT	360T x IVES 8190 10”
Base Size	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w (*190x43mm)*	7½"h x 1 11⁄16"w (*190x43mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*
Grip Size	—	—	—	—	—
Projection	3" (*76mm)*	1" (*25mm)*	1" (*25mm)*	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*
ANSI Function	02	03	03	11 or 12 Field Selectable	11 or 12 Field Selectable
Cylinder Type	—	Rim	Rim	1¼" Mortise	1¼" Mortise

	Thumbturn-Blank Escutcheon Always Operable (No Cylinder)	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder)	**Thumbturn** Key Locks & Unlocks	**Thumbturn-Blank Escutcheon** Always Operable (No Cylinder)
				
Trim Description	360T-BE x 550DT	360T-BE x IVES 8190 10”	374T or 376T x 392-6	374T-BE or 376T-BE x 392-6
Base Size	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*	7½"h x 1 11⁄16"w x ⅞"d (*190x43x22mm)*
Grip Size	—	—	8½"h x 4 5⁄16"w (*216x110mm)*	8½"h x 4 5⁄16"w (*216x110mm)*
Projection	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*	1 13⁄16" (*46mm)*
ANSI Function	—	—	11 or 12 Field Selectable	—
Cylinder Type	—	—	1¼" Mortise	—

Note: 360L & 360T used on Wood Door require the 33A-WDA cover plate
374T or 376T used on Wood Door require #10-WDA cover plate.

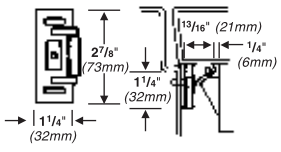
Strike Application/Minimum Stile

Device Type	Standard				Optional			
	Single door		Double door		Single door		Double door	
	Strike	Stile	Strike w/Mullion*	Stile	Strike	Stile	Strike w/Mullion*	Stile
33A **35A**	1439	1¾" *(44mm)*	1408 x 5754	1¾" *(44mm)*	299 1410 1606	2 ¾" *(70mm)* 1 ¾" *(44mm)* 2 ½" *(64mm)*	299 x 5654 299 x 4954 1606 x 1654	2 5⁄8" *(67mm)* 3 5⁄16" *(84mm)* 2 ¾" *(70mm)*
3327A **3527A**	266 (Top) 304L (Bottom) 248L-4 (Bottom)	1¾" *(44mm)*	266 (Top) 304L (Bottom) 248L-4 (Bottom)	1¾" *(44mm)*	299 (Top) 385A (Bottom) 260U (Top) 385A (Bottom)	3 1⁄8" *(79mm)* 2 1⁄8" *(54mm)*	299 (Top) 385A (Bottom) 260U (Top) 385A (Bottom)	3 1⁄8" *(79mm)* 2 1⁄8" *(54mm)*
3327A-F **3527A-F**	———	———	299F (Top) 304L (Bottom)	2 3⁄16" *(56mm)*	———	———	———	———
3327A-LBR-F	———	———	499F (Top) (Req. Auxiliary Fire Latch)	3 5⁄8" *(92mm)*	———	———	———	———
3347A **3547A** **3348A** **3548A**	338 (Top) 385A (Bottom)	2 ½" *(64mm)*	338 (Top) 385A (Bottom)	1 ¾" *(44mm)*	304L (Bottom)	2 ½" *(64mm)*	304L (Bottom)	2 ½" *(64mm)*
3347A-F **3547A-F** **3348A-F** **3548A-F**	———	———	338 (Top) 385A (Bottom)	3 ½" *(89mm)*	———	———	304L (Bottom)	3 ½" *(89mm)*
3347A-LBR **3547A-LBR** **3348A-LBR** **3548A-LBR**	338 (Top)	2 ½" *(64mm)*	338 (Top)	2 ½" *(64mm)*	———	———	———	———
3347A-LBR-F **3547A-LBR-F**	———	———	338 (Top)	3 5⁄8" *(92mm)*	———	———	———	———

*Mullion information — Refer to the General and Auxiliary Catalog.

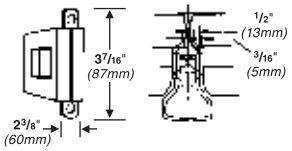
Strikes for Rim Devices

299



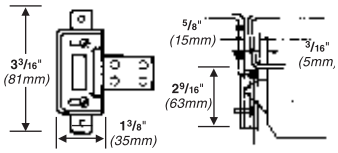
Projection 13⁄16" *(21mm)*

1408



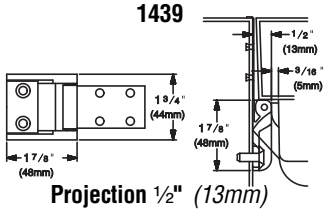
One per pair of doors

1410 — Integral Stop



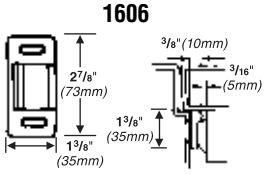
Projection ½" *(13mm)*

1439



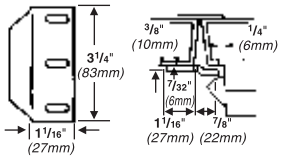
Projection ½" *(13mm)*

1606



Projection ⅜" *(10mm)*

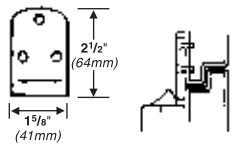
1609



For rim/vertical rod combination — consult factory

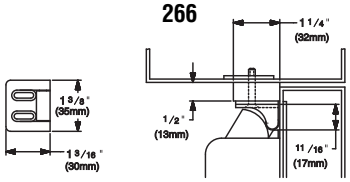
Strikes for Vertical Rod Devices

260U — Flush Transom Only



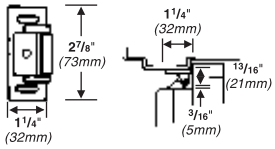
Projection ⅜" *(10mm)*

266



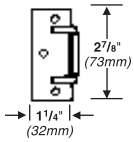
Projection 1¼" *(32mm)*

299



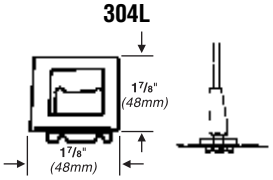
Projection 13⁄16" *(21mm)*

299F



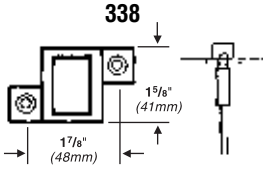
Projection 13⁄16" *(21mm)*

304L



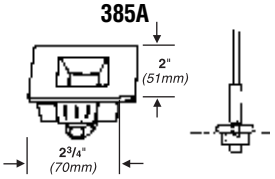
Mortise 13⁄16" *(21mm)*

338



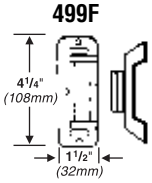
Mortise ⅝" *(16mm)*

385A



Mortise 2 ½" *(64mm)*

499F



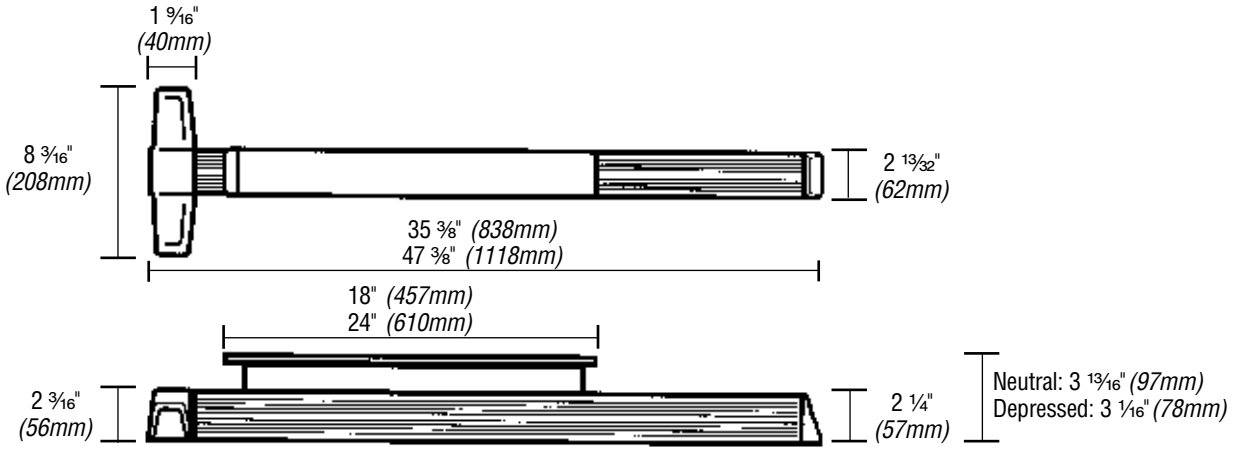
Projection 15⁄16" *(21mm)*

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ANSI Grade, Type & Function

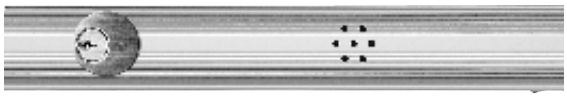
Function	Grade 1, Type 4	Grade 1, Type 5	Grade 1 Type 6, 7 & 8	
01	33A-EO 35A-EO	3327A-EO 3327A-EO-F 3527A-EO 3527A-EO-F	3347A-EO 3347A-EO-F 3348A-EO 3348A-EO-F	3547A-EO 3547A-EO-F 3548A-EO 3548A-EO-F
02	33A-DT 35A-DT	3327A-DT 3527A-DT	3347A-DT 3348A-DT	3547A-DT 3548A-DT
03	33A-NL 33A-NL-OP 35A-NL 35A-NL-OP	3327A-NL-OP 3527A-NL-OP 3327A-NL-OP-F 3527A-NL-OP-F 3527A-NL 3327A-NL-F 3527A-NL 3527A-NL-F	3347A-NL-OP 3347A-NL-OP-F 3348A-NL-OP 3348A-NL-OP-F 3347A-NL 3347A-NL-F 3348A-NL 3348A-NL-F	3547A-NL-OP 3347A-NL-OP-F 3548A-NL-OP 3548A-NL-OP-F 3547A-NL 3547A-NL-F 3548A-NL 3548A-NL-F
08-09	33A-L 35A-L	3327A-L 3327A-L-F 3527A-L 3527A-L-F	3347A-L 3347A-L-F 3348A-L 3348A-L-F	3547A-L 3547A-L-F 3548A-L 3548A-L-F
11-12	33A-TL 35A-TL	3327A-TL 3327A-TL-F 3527A-TL 3527A-TL-F	3347A-TL 3347A-TL-F 3348A-TL 3348A-TL-F	3547A-TL 3547A-TL-F 3548A-TL 3548A-TL-F

Dimensions



Electrical Options

Alarm Kit – ALK



The ALK battery alarm kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key. Thus allowing the exit device to be set in an armed or disarmed mode. The horn is rated at 85 decibel.

The key switch uses a standard 1¼" (32mm) mortise cylinder with a straight cam (Schlage Cam reference B502-191). The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal.

Also can be powered using the PS9 Power Supply. See PS9 for additional information.

Alarm kits are available with a choice of two switch kits, RX or LX. RX monitors the touchpad and is furnished standard. LX optional latch bolt monitoring is recommended for use with surface vertical rod exit devices. Specify ALK-LX.

The ALK is available in two styles, 33A/99ALK, grooved cover and 35A/98ALK, smooth cover.

The ALK includes "EMERGENCY EXIT ONLY. ALARM WILL SOUND" decal for application on door, or the SS push bar trim can be used instead of the door decal,specify SS push bar trim.

The ALK is available with 2 optional circuit boards. External Inhibit (EI) allows for the use of external switch to be used to arm, disarm and reset the alarm. Auto Reset (AR) rearms the alarm after a preset time. AR is available in three factory set times – 1½, 3 or 6 minutes.

To Order, Specify:

1. External Inhibit – ALK-EI
2. Auto Reset – ALK-AR3

When the ALK is used, standard dogging is removed. If cylinder dogging is required there are two choices. Special center case dogging is available or for 3' or 4' doors the ALK can be moved to the hinge side of the device and standard cylinder dogging can be added.

To Order, Specify:

1. Standard, 33ANL ALK
2. Cylinder Dogging, CD33ANL ALK

Minimum Door Sizes

Device	3' *(914mm)* Length	4' (*1219mm)* Length
33A/35A	2'9" *(838mm)*	3'3" *(991mm)*
3327A/3527A	2'8" *(813mm)*	3'2" *(966mm)*
3347A/3347A-F 3547A/3547A-F	2'8" *(813mm)*	3'2" *(966mm)*
3348A/3348A-F 3547A/3547A-F	2'8" *(813mm)*	3'2" *(966mm)*

Request to Exit — RX



The RX (Request to Exit) feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the pushpad.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The RX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resistive maximum).

The RX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

- Standard – Use prefix RX, example RX33AEO
- Low Current – Use prefix RX-LC, example RX-LC35AEO

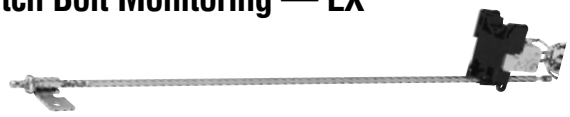
Double Request to Exit — RX2

The RX2 feature uses 2 RX switches. Also available with the Low Current (LC) switch.

To Order, Specify:

- Standard – Use prefix RX2, example RX233AEO
- Low Current – Use prefix RX2-LC, example RX2-LC35AEO

Latch Bolt Monitoring — LX



The LX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the latch bolt.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The LX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resistive maximum).

The LX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

- Standard – Use prefix LX, example LX33AEO
- Low Current – Use prefix LX-LC, example LX-LC35AEO

Electrical Rating for all Switches:

- Standard – up to 0.5 Amp @ 24VDC Maximum
- Low Current (LC) - up to .05 Amp @ 24VDC Maximum

Note: All Switches can be either factory or field installed

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Electrical Options

Electric Latch Retraction — EL



The EL feature allows for the remote unlatching of exit devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt, either for momentary unlatching, or for extended periods of time. The EL feature is an alternative to manual dogging. If manual hex-key dogging is required, specify HD-EL.

EL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an **automatic fire alarm system.**

UL approved for Class II circuit applications.

The EL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS873 power supply.

The PS873 with the 871-2 option card is minimum option card required. Other option cards available for other functions, see PS873 power supply for additional information.

Solenoid Specifications:

Continuous Duty — 24 VDC

Current Inrush — 16 Amps

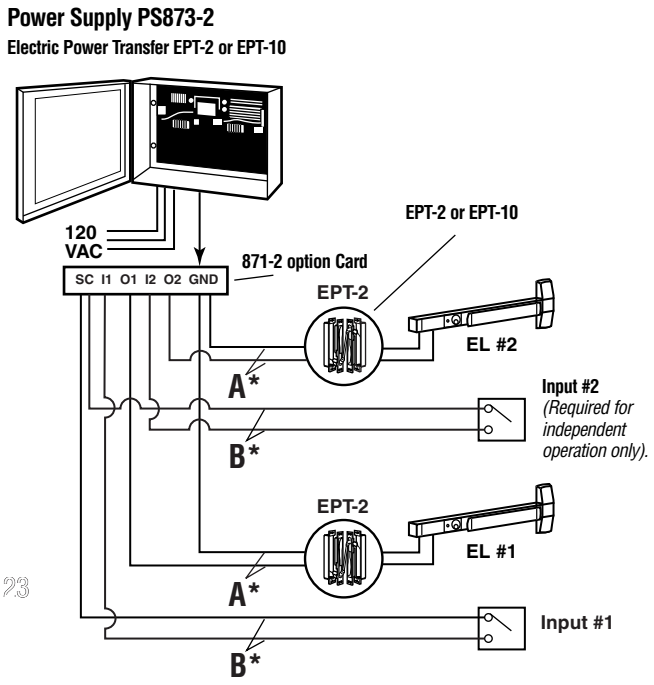
Current Holding — 0.3 Amps

To order, specify:

Standard — Use prefix EL, example EL33AL.

Hex Key dogging — Use prefix HD-EL, example HD-EL33AL

Popular EL Application



Signal Switch — SS



Monitors pushpad and latch bolt

The SS feature is used to signal the unauthorized use of an opening. This device is equipped with two internal SPDT switches. One switch monitors both the pushpad and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1 ¼" *(32mm)* mortise with straight cam for alarm "bypass." (Schlage cam reference B502-191). The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Pushpad reads:
"EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM." Pushpad is only available in US32D finish with red silk-screened lettering.

To Order, Specify:

1. Prefix SS, example SS33AL.
2. Handing Required, LHR or RHR.

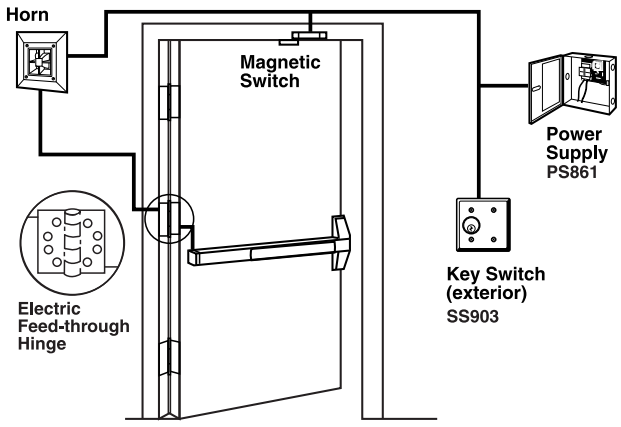
Electrical Ratings:

Up to 2.0 AMPS @ 24VDC

Popular SS Application

Unauthorized use of this opening will activate the local horn.

The key switch permits inhibiting this system for authorized entry.



EL Device Wire Selection Size

A*	Run Length	EL Device w/EPT or Door Loop
	0-100 ft.	14 gauge
	0-200 ft.	12 gauge

A*	Run Length	EL Device w/Electric Hinge/Pivot
	0-75 ft.	14 gauge
	0-150 ft.	12 gauge

B*	Wire Selection	Switch Wire Size
	1200 ft. Max.	18 gauge

Electrical Accessories

Power Supplies



SERIES PS873

The series PS873 power supply is designed to operate a wide variety of electrical products. EL panics require 871-2 PCB minimum. The regulated output power is field selectable for either 24VDC @ 2 ampere or 12VDC @ 4 ampere. Standard input 120VAC @ 1.0 ampere or 240VAC @ 0.5 ampere available. Enclosure is 10" high x 12½" wide x 5" deep *(254mm x 323mm x 127mm)*, gray with a hinged cover and constructed of heavy 19 gauge steel. Five ½" x ¾" *(13mm x 19mm)* knockout holes are provided for conduit connection. Terminal block will accept up to 12 gauge wire.

The PS873 can be ordered with three standard options: **Key lock** secures the cover to eliminate tampering and provides safety; **Battery backup** provides two hours backup power at full load during a A.C. power failure. Batteries will automatically recharge when failed power is restored. **Fire Alarm** provides input for a normally closed fire alarm contact. When the fire alarm contact is "open", power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

Eight standard configurations:

PS873	Standard
PS873K	With keylock
PS873B	With battery
PS873BK	With battery and keylock
PS873FA	With fire alarm
PS873K-FA	With keylock and fire alarm
PS873B-FA	With battery and fire alarm
PS873BK-FA	With battery, keylock and fire alarm

The series PS873 is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

Factory or Field Installed Circuit Cards:

871-2, Two Zone controller provides two inputs and two outputs. Will operate one or two EL exit devices. Use suffix "-2" for factory installed, example PS873-2.

873-AL, Alarm function monitors 1 or 2 zones and provides alarm output, upon detecting a door in the open position. Delayed alarming is selectable from 5 to 75 seconds. Use suffix "-AL" for factory installed, example PS873-AL

873-AO, Auto Operator function coordinates the release of one or two locks and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods; by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by a "RX" type input switch. Use suffix "-AO" for factory installed, example PS873-AO

873-SI, Security/Safety Interlock provide interlock function for two zones. When combined with a second 873-SI card, the inter-locking of groups are available in two, three or four zones. Safety interlock is available, consult factory for additional information. Use suffix "-SI" for factory installed, example PS873-SI

873-4TD, Four Zone controller with **Time Delay** provides four inputs and four outputs with time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. Will operate up to 4 EL devices. Use suffix "-4TD" for factory installed, example PS873-4TD

873-AC, Access Control provides supervision of one zone using an electromagnetic lock. Input signals required are: access control contact, motion detector contact, and motion detector override contact. FA, Fire Alarm option is required. Use suffix "-AC" for factory installed, example PS873-AC

Factory Installed Only Circuit Card

873-DE, Delayed Egress provides 15 second delay release from pushbar activation to electro-magnetic lock release. Ideal function for use with Locknetics electromagnetic locks, will operate two zones simultaneously. To operate two separate zones, a second 873-DE card is required. UL listed component, when used as part of a Von Duprin delayed egress system. Use suffix "- DE", example, PS873-DE.

Note: "DE" cards CANNOT be combined with any other optional cards.

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Electrical Accessories

Power Supplies
PS861 Power Supply



Standard
UL Listed
Class 2, Power Supply
UL1012
UL1310

The series PS861 power supply is designed for electric locking or monitoring on single or double door applications. The output power is field selectable for either 24 VDC @ 1 ampere or 12 VDC @ 2 ampere. Standard input 120 VAC @ 0.6 ampere and 240 VAC @ 3.0 ampere available. The terminal block will accept up to 14 gauge stranded wire.

The gray enclosure is 10" x 10" x 4" *(254mm x 254mm x 102mm)*, has a hinged cover, and is constructed of heavy 19 gauge steel. Six ½" *(13mm)* knockout holes are provided for conduit connection.

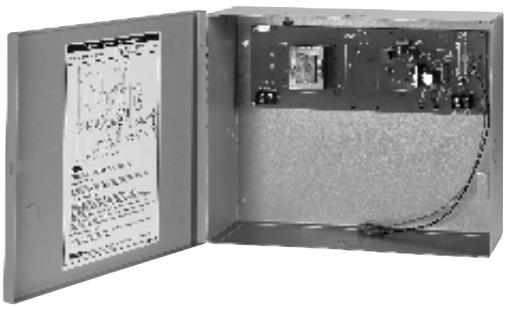
Options include keylock cover or Battery Backup. The pair of batteries, which are sealed lead acid battery packs, will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored.

Four Models:

PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861FA	Fire Alarm
PS861BK	Battery backup and keylock cover
PS861BKFA	Battery backup and keylock cover with FA board (24VDC only)

PS9 Power Supply

The PS9 is an AC power supply that provides 9 VDC power to operate the ALK alarm kit. The unit will power one or two alarm kits. Included is a 9-volt sealed battery that provides backup power in case of an AC power failure.



Electrical Power Transfer — EPT
Pneumatic Transfer – PNT



Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suite for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires. The EPT-2 and EPT-10 are U/L listed as "miscellaneous door accessory".

Pneumatic Controls

PNT-1 is available for pneumatic latch retraction exit devices. Appearance and dimensions are identical to EPT models.

UL Listed for use on firedoors

Door applications:
up to 5" butt hinges – 180˚ swing,
5½" butt hinges – 130˚ swing,
6" butt hinges – 110˚ swing,
¾" butt offset pivots 180˚ swing.

Not for use with swing clear hinges or center-hung pivots.

Finishes

SP28 (sprayed aluminum)

SP313 (sprayed duranodic).

Dimensions

Housing	9" x 1 ¼" x 1 ⅝" *(229mm x 32mm x 38mm)*
EPT-2	Two 18 gauge wires, Up to 2 AMPS @ 24VDC, with a 16 AMPS Maximum Surge
EPT-10	Ten 24 gauge wires, Up to 1 AMPS @ 24VDC, with a 16 AMPS Maximum Surge
PNT-1	5⁄32" Tubing

To order, specify:

1. EPT-2 ,EPT-10 or PNT-1.
2. Finish, SP28 or SP313.

Pneumatic Controlled Exit Devices–PN



The PN feature provides remote latch bolt retraction in hazardous areas where electrically operated devices would not be permitted. The pneumatic solenoid will retract the latch bolt for momentary or prolonged periods. PN exit devices are particularly suited for use with automatic door operators. The PN feature is available on both Panic and Fire Exit Hardware devices.

The PN feature includes a special actuating linkage that gives building owners the option of mechanically or pneumatically dogging the exit device. If manual hex-key dogging is required, specify HD-PN (Dogging the device, whether mechanically or pneumatically, makes the device function as a push/pull unit and reduces the wear on its moving parts.)

When activated pneumatically, the latch bolt(s) of the exit device retract in ½ to 1 ½ seconds. This pneumatic operation uses air pressure ranging from 50 to 100 pounds per square inch.

This product will function only when it is part of a pneumatic system (air compressor, air lines, pneumatic system, etc.). Contact LCN for correct control boxes

To Order, Specify:

- Standard — Use prefix PN, example PN33ANL
- Hex Key Dogging — Use prefix HD-PN, example HD-PN33ANL

Less Dogging – LD

Less Dogging is available in all 33A/35A Panic Exit devices to remove the dogging option.

To Order, Specify:

- Use prefix LD, example LD33AL

Cylinder Dogging — CD



Cylinder dogging is available on all 33A/35A Panic Exit devices to replace the standard hex key dogging. Unit requires a standard 1¼" *(32mm)* mortise cylinder with a straight cam (Schlage Cam B502-191 reference).

To Order, Specify:

- Use prefix, CD, example CD33AL

Cylinder Dogging Kit — CDK

For field conversion, a cylinder dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99CDK or **35A/98CDK**, specify finish.

Hex Key Dogging Kit — HDK

For field conversion, a hex key dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99HDK or **35A/98HDK**, specify finish.

Dummy Pushpad



The 330 dummy pushpad is designed as a companion unit for all 33A devices. The 350 dummy pushpad is a companion unit for all 35A devices. The pushpad is rigid or nonfunctioning. A push/pull operation can be accomplished by using 386DT, 360L-DT, 550DT, 392-6 trim or any Ives Pull.

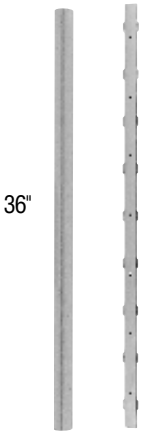
The 330/350 can be equipped with a functional pushpad and will accommodate an RX switch. Specify RX-330. May also be equipped with the RX2, double RX switch. Specify RX2-330

To order, specify:

1. 330 or 350.
2. Size 3' or 4' *(914mm or 1219mm)*
3. Finish, US3, US4, US10, US26, US26D, US28, 313AN, 315AN, 350 Only US32D.

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Vertical Rod and Latch Guard — RG-27

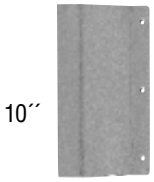


Rod Guard

Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. (If bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.)

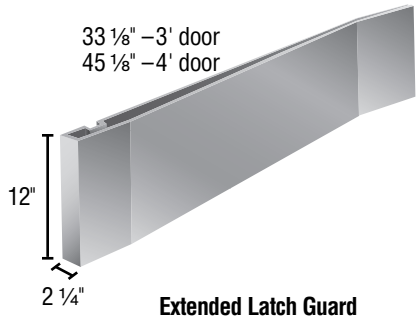
In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easily with the bumpers of a wheelchair. The latch guard portion is 10" high. The standard latch guard features a 45° ramp. The extended latch guard offers a continuous ramp in 3' or 4' widths.

All stainless steel construction in US32D finish. Latch guards can cover latches as large as 1¼"W x 10"H x 1⅞" projection.



Latch Guard

Models
RGO — Rod guard only (Projection 1 3⁄16").
RG-27 — Rod and latch guard.
RG-27-3 — 3' *(914mm)* Rod Guard and Extended Latch Guard.
RG-27-4 — 4' *(1219mm)* Rod Guard and Extended Latch Guard.



Extended Latch Guard

LGO — Latch guard only.
LGO-3 — 3' *(914mm)* Extended latch guard only.
LGO-4 — 4' *(1219mm)* Extended latch guard only.

Note: Not for use on wood fire doors

To Order, Specify:

1. Model number.
2. Handing (except on RGO).
3. Door material if other than Hollow Metal.
4. Optional sex bolt mounting available.

Less Bottom Rod – LBR

LBR option is available, using a spring loaded auxiliary latch bolt installed in the lower door edge. When exposed to heat the auxiliary latch bolt releases, keeping the doors in alignment and closed during a fire. UL listed 3 hours on hollow metal doors double egress, 90 minute swinging same direction, and 20 minutes wood doors (consult wood door manufacturer). Fits door stiles as narrow as 3⅝".

LBR devices must be ordered in pairs or must be used in conjunction with an approved automatic or constant latching flush bolt.

LBR used on non-fire rated devices, the spring loaded auxiliary latch bolt is not required. Device is supplied less bottom rod, latch and strike.

Pullman Latch – PL

When PL is specified the standard latches are replaced with pullman style latches. Pullman latches are always extended and are most commonly used in conjunction with electric strikes and LBR-less bottom rod application. Not available with Fire rated devices. Not recommended where security is of the utmost since latches do not deadlock.

Glass Bead Kit – GBK

Glass bead conversion kits are available for all 33A/35A Series devices for use on doors with raised glass beads. Each kit consists of ¼" *(6mm)* shim sets. GBK for Surface Vertical Rod ships with ⅛" shims for rod guides.

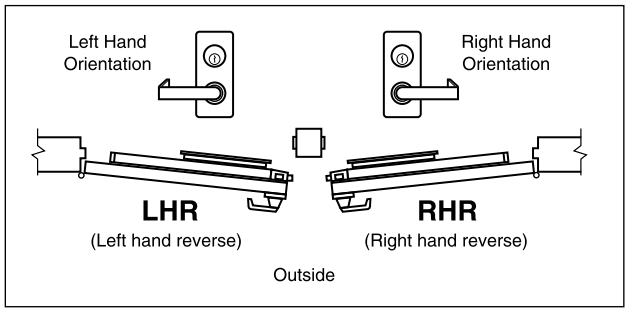
To order, specify:

1. 33AGBK
2. Device type (Rim, Mortise, Surface Vertical Rod, Concealed Vertical Rod)
3. Wood Door, when used with Concealed Vertical Rod

UL Listed — Fire Exit Hardware Label/ Opening Size

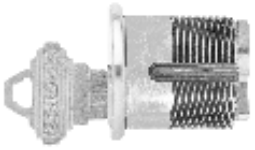
	Double Door	
Exit Device	**Same Direction**	**Double Egress**
3327A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3527A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3347A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3547A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3347A-F-WDC	90 Min. 8' x 9'3"	90 Min. 8' x 9'3"
3547A-F-WDC	90 Min. 8' x 9'3"	90 Min. 8' x 9'3"
3348A-F	90 Min. 8' x 10'	3 Hour 8' x 10'
3548A-F	90 Min. 8' x 10'	3 Hour 8' x 10'

Handing of Doors



Cylinders

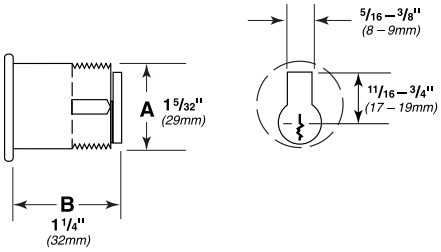
Cylinders are not furnished with device or trim and must be specified when ordering. Rim, surface vertical rod, and concealed vertical rod exit devices use rim type cylinders. **EXCEPTION:** Devices using 360 and 370 controls use 1 ¼" mortise cylinders.

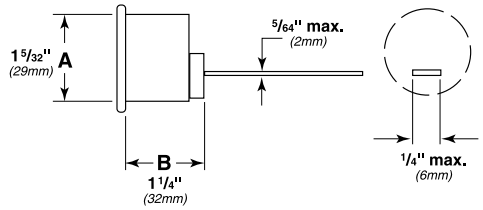


Mortise — 3215 (Schlage B502-191 cam)

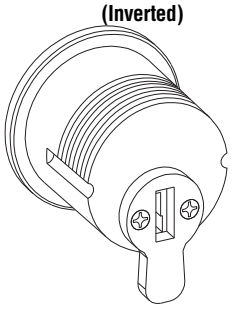


Rim 3216



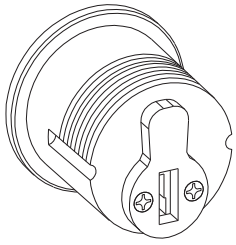


Dogged Cam (Inverted)



For standard locking trim on 360 controls and for Cylinder Dogging.

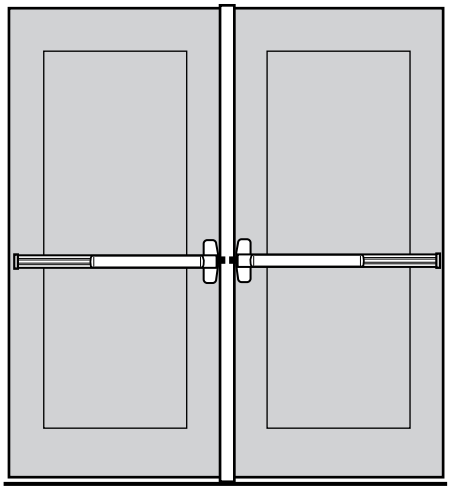
Undogged Cam (Standard Option)



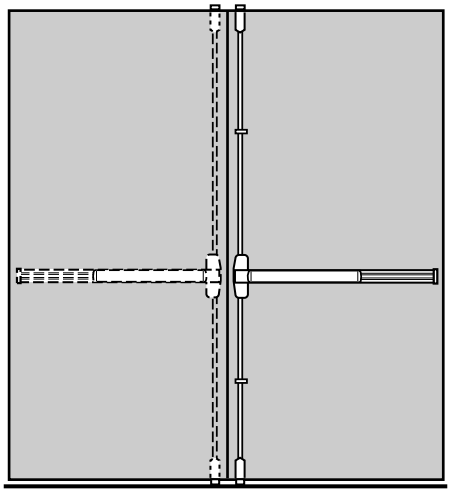
For NL function on 360 controls.

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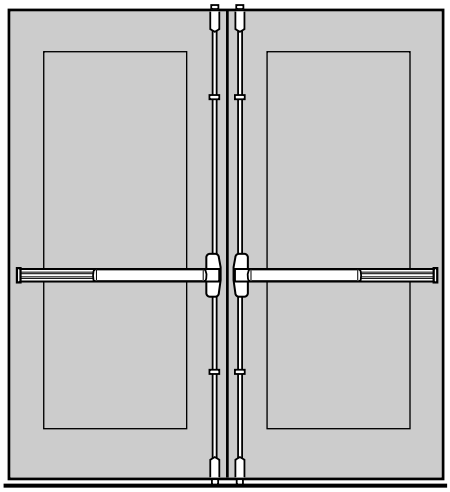
Popular Double Door Applications



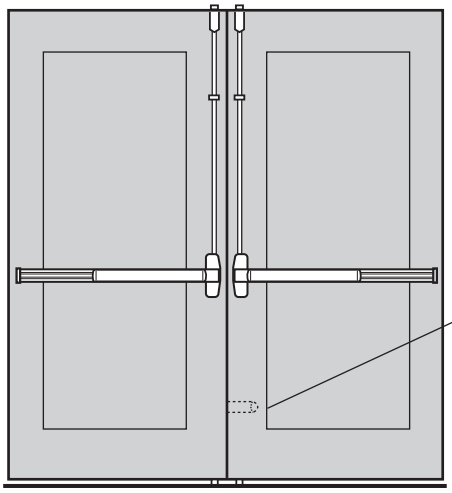
Two rim devices with mullion — same direction



Two vertical rods — double egress



Two vertical rod devices — same direction (do not use with overlapping astragal)



Two FEH vertical rods with auxiliary fire latch— LBR option

Rim devices, specify:

1. Exit device model number with trim selection.
   Examples: 33A-EO (exit only with no outside trim).
   33A-NL (includes 386NL trim). 33A-NL-OP
   (includes the 388 trim less pull).
2. Size 4' *(1219mm)* for door sizes 3'1" *(940mm)* to 4' *(1219mm)*.
   Size 3' *(914mm)* for door sizes 2'6" *(792mm)* to 3' *(914mm)*
   is shipped standard.
3. Door thickness if other than 1 ¾" *(44mm)*.
4. Door and frame material if other than hollow metal.
5. Finish, see inside front cover.
6. Handing required on "L," "SS," or "386NL." Specify LHR or RHR.
   See page 28.

Vertical rod devices, specify:

1. Exit device model number with trim selection.
   Examples: 3327A-EO (exit only with no outside trim.)
   3327A-TL-OP (includes 360T Control) 3327A-TL (includes 374T
   and 386DT).
2. Size 4' *(1219mm)* for door sizes 3'1" *(940mm)* to 4' *(1219mm)*.
   Size 3' *(914mm)* for door sizes 2'6" *(792mm)* to 3' *(914mm)*
   is shipped standard.
3. Door thickness if other than 1 ¾" *(44mm)*.
4. Door height if greater than 7' *(2134mm)* surface vertical rod
   device (8' 4" for concealed devices), extension rods must be
   ordered.
5. Door and frame material if other than hollow metal.
6. Finish, see inside front cover.
7. Handing required on "L," "SS," or "386NL." Specify LHR or RHR.
   See page 26.

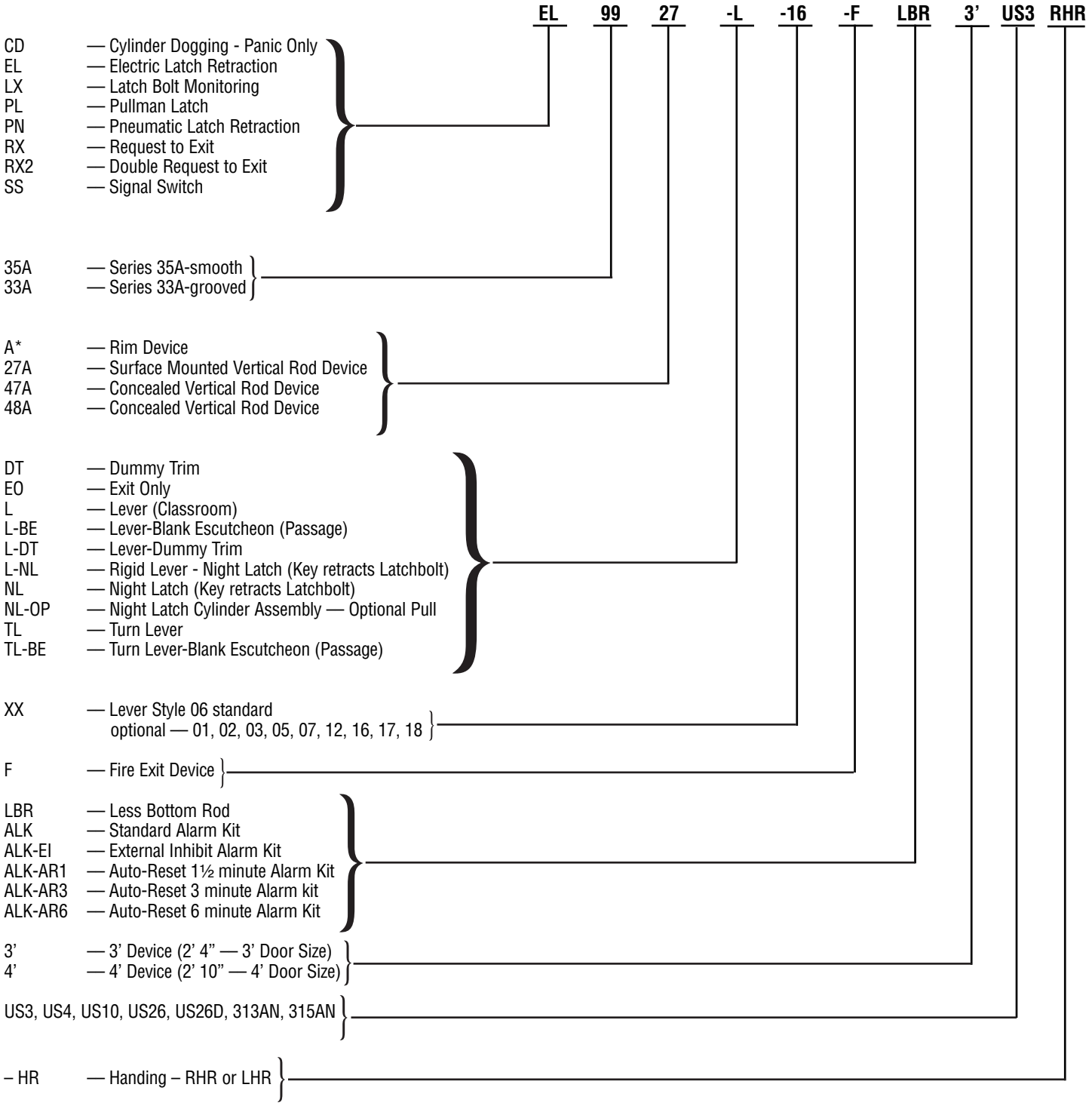
Pullman latches are optional for 3327A/3527A devices. Latchbolts remain extended at all times. Specify "Pullman Latch" when required.

Device trim, Cross-reference:

33/35 Devices	Status	33A/35A Devices
333NL-TP	Replaced	386NL
333DT	Replaced	386DT
337NL-TP	Replaced	386NL
337DT	Replaced	386DT
334	Replaced	388
334 x 550	Replaced	388 x 550
370L	Replaced	360L
370T	Replaced	360T
372L	Replaced	360L
374T x 333DT	Replaced	374T x 386DT
-----	New	374T x 392-6
376T x 337DT	Replaced	376T x 386DT
-----	New	376T x 392-6
3308NL	Obsolete	-----
3308DT	Obsolete	-----
-----	New	388 x Ives 8190 Series Pull
-----	New	360T x Ives 8190 Series Pull

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Nomenclature – How To Order



* "A" Suffix indicates new generation design of 33/35 exit devices

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33A/35A Series Exit Devices



Visit Von Duprin on the web

www.vonduprin.com

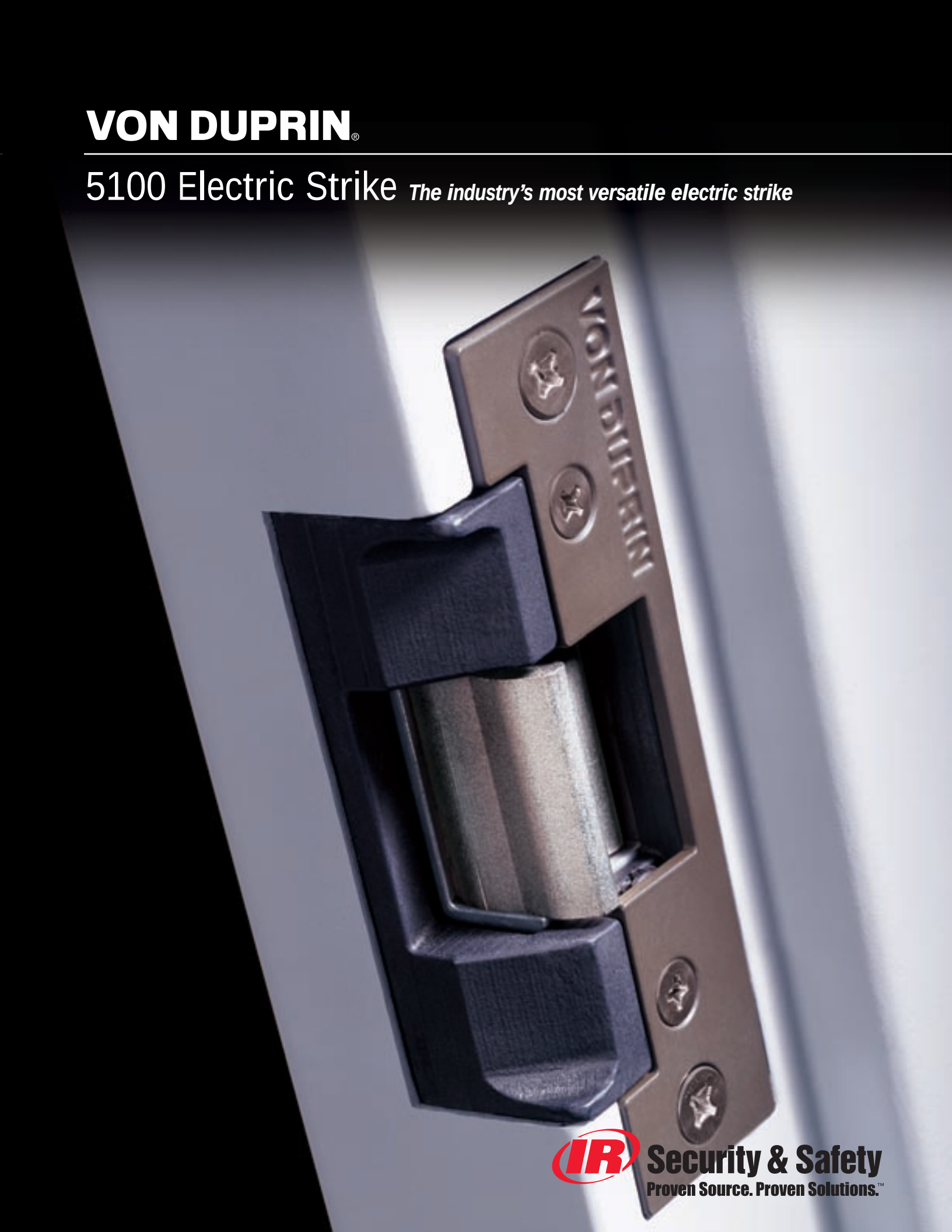
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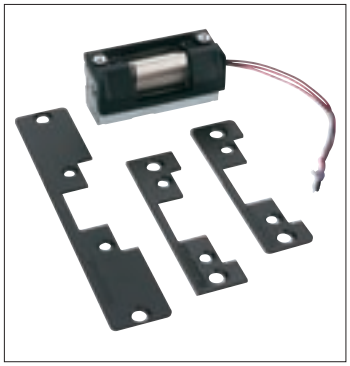
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VON DUPRIN®

5100 Electric Strike *The industry's most versatile electric strike*



IR Security & Safety
Proven Source. Proven Solutions.™



Each electric strike kit comes standard with three faceplates, a 12/24 dual-voltage solenoid, fail safe/fail secure selectability and an adjustable keeper.

The Von Duprin 5100 Electric Strike has been designed and manufactured to meet the needs of locksmiths and security professionals. This easy-to-install electric strike was created for medium duty applications, specifically to control traffic flow through interior and exterior openings in retail and commercial environments. And because it's the Von Duprin brand, you know that you can depend on the product quality and performance.

VERSATILITY:

Fewer products to inventory and more value for your money.
- Three faceplates included for hollow metal, wood or aluminum frames.
- Internal 12/24 dual-voltage solenoid.
- Adjustable keeper.
- Fail-safe/fail-secure selectability.

CONVENIENCE:

The right parts in the box means getting the job done right the first time, every time.
- Reduce labor expense.
- Fewer return trips to the job site.
- Reduces SKU's.

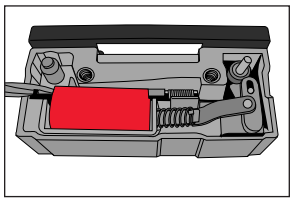
DURABILITY:

Developed with Von Duprin's high standards and engineering expertise.
- Heavy-duty construction.
- Tamper resistant design.
- Tested to over one million cycles.
- 1300 lbs. holding strength.

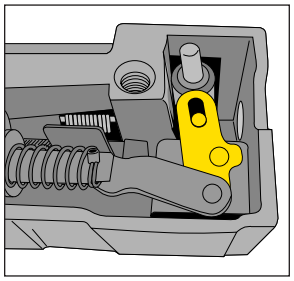
JOB SITE VERSATILITY.

The Von Duprin 5100 Electric Strike can meet the application needs of six or more competitive models for standard installation, which saves time, money, and labor.

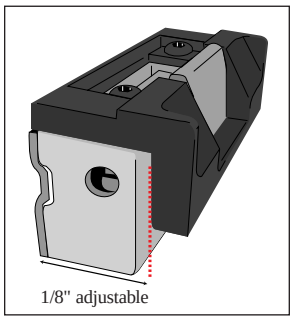
1. The solenoid has four wires, allowing you to configure the strike at the job site so you can use it in either 12 or 24 volt DC applications.



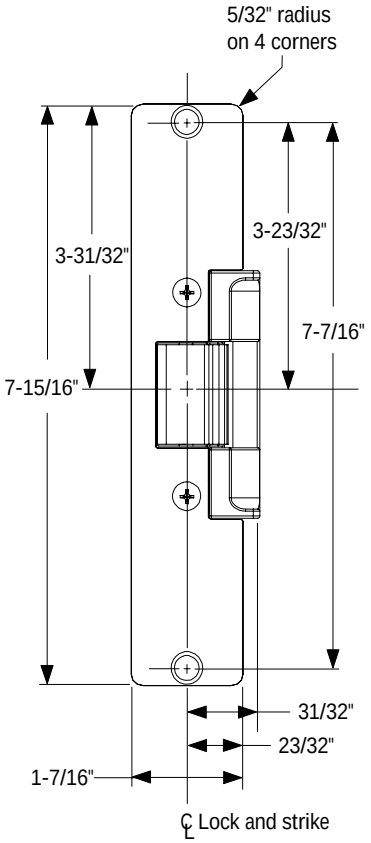
2. The 5100 Electric Strike is easily changeable between fail-safe and fail-secure in the field without the need for additional parts.

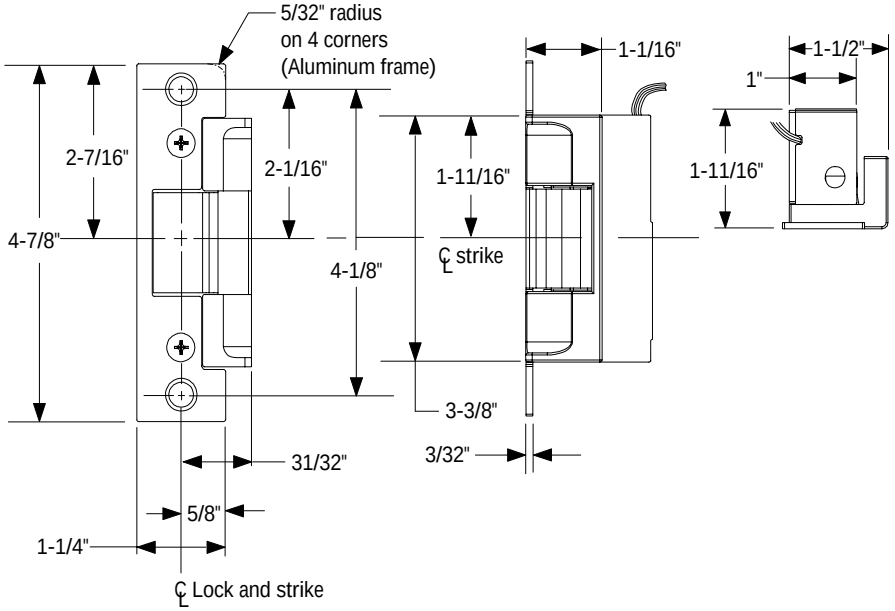


3. The 5100 Electric Strike has a 1/8" horizontally adjustable keeper. This mechanism, which is designated by the dark gray region of the diagram, allows the installer to adjust the strike where a door and frame are not properly aligned or where weather stripping is causing too much pressure on the strike.



Standard Features	Benefits
Three faceplates standard in every box	No matter the frame type -- wood, aluminum or hollow metal -- the installer has what's needed in every box to finish the job right – the first time.
12/24 dual-voltage	Easily answers the question of 12 or 24 volts DC.
Fail-safe/fail-secure	Easily changed in the field in less than thirty seconds. No additional parts are required.
Adjustable keeper	Provides a snug fit and reduces pressure from the door on the strike.
Internal solenoid	Increases the ease of installation where the frame is filled with grout or concrete and must be hollowed-out.
Non-handed	Can be used for doors opening in either direction.
Backbox depth of 1 11/16"	Reduces the need for additional cutting of the frame and other prep work.
Keeper depth of ½"	Sufficient to accommodate all cylindrical locks up to 5/8" throw and most aluminum narrow stile deadlatches.
Mounting tabs	For applications where mounting brackets are not provided on the frame.
Retrofit kit	Neoprene filler provides a clean finish.
Illustrated installation instructions	Increases ease of use and installation.
Tamper resistant design	Minimizes unauthorized access.
Warranty	Standard Von Duprin 1 year electrical product warranty.
Continuous duty operation	Solenoid can be continuously powered.
Heavy duty construction	• Die cast aluminum backbox offers strong, corrosion resistant design. • Internal steel components are corrosion resistant. • High density steel keeper can withstand over 1300 lb. of force. • Stamped steel faceplates are stronger than aluminum





5100 Electric Strike *The industry's most versatile electric strike.*

POWER OPTIONS:

DC: Regulated Power Supplies (Recommended)
- Von Duprin PS 861
- Von Duprin PS 873
- Locknetics 505
- Locknetics 510
- Locknetics 515

DC: 24V Unregulated Power Supplies (Acceptable)
- Locknetics 593 PI-24DC (Plug-In)
- Locknetics 592-24RC (Hard-Wired)

AC/DC Conversion:
- Von Duprin SO-24 Kit

SPECIFICATIONS:

- ANSI/BHMA 156.5 Grade 1
- UL 1034 Burglary Listing

	12VDC	24VDC
Resistance (Ohms)	32	128
Power (watts)	4.5	4.5
Current (amps)	.38	.19

All specs ± 10% @ 77°F/25°C

STANDARD CONFIGURATION:

- 24 volts DC
- Fail-secure

DIMENSIONS:

Backbox: 3⅜" x 1" x 1$^{11}/_{32}$"
Overall Strike Depth: 1$^{11}/_{16}$"
Faceplates:
- 4⅞" round corner ANSI A115.2 standard frame prep
- 4⅞" square corner ANSI A115.2 standard frame prep
- 7$^{15}/_{16}$" long, round corner wood frame prep

Keeper pocket: 1$^{7}/_{16}$"L x ½"D x $^{11}/_{16}$" - $^{13}/_{16}$"W (adjustable)
Lip Attachment cut-out depth: 1$^{1}/_{16}$"

HOW TO ORDER:

- 5100-689 (Aluminum)
- 5100-622 (Black)
- 5100-695 (Dark Brown)



689 *622* *695*

Security & Safety
Proven Source. Proven Solutions.™

VON DUPRIN
2720 Tobey Drive,
Indianapolis, IN 46219
317-613-8944 phone
317-613-8302 fax
www.vonduprin.com
www.irsecurityandsafety.com

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VON DUPRIN®

55 Series Exit Device



Security & Safety
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Introduction

The proper selection and application of exit hardware, in addition to safety, are major concerns to all responsible manufacturers. Exit devices are a critical part of a door opening or access system and will provide safe and reliable service when properly applied and maintained. It is the policy of Von Duprin Division, Ingersoll-Rand Company, to design and manufacture exit devices to a high standard of quality and reliability in accordance with accepted U.S. domestic and international standards. All 55 series exit devices are UL listed for Accident Hazard or Fire Exit Hardware, and are tested in accordance to ANSI A156.3, 1994, Grade I.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments, and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended whenever an unusual application condition exists, or when any modification of a product is considered, our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.





1409

55 rim devices for all types of single and double doors with mullion, UL listed for accident hazard installations. Fits doors stiles as narrow as 1-3/4" *(44mm).* Specify if 2-1/4" door.

Features

- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Five popular finishes
- Hex key dogging

Dimensions

Crossbar height to finished floor	36-13/16" *(1011mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Crossbar tubing	1" *(25mm)*

Strikes and Fasteners

Device is furnished with standard 1409 strike in dull black finish. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. For strike dimensions and optional strike information, refer to pages 12-13.

Outside Trim

Standard

550DT x 110NL-MD
550DT x 110NL-WD
550DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.

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575

5575 mortise lock devices for all types of single and double doors. UL listed for accident hazard installations.

The 7500 mortise lock is equipped with a 3/4" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel. Wood doors required 589 cover plate.

Features

- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Latch bolt height to finished floor	40-3/32" *(1018mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Lock case	4-5/8" x 5-3/4" x 1-1/16" *(117mm x 146mm x 27mm)*
Faceplate	1-1/4" x 8" x 7/32" *(32mm x 203mm x 6mm)*
Cylinder backset	2-3/4" *(70mm)*
Crossbar tubing	1" *(25mm)*

Strikes and Fasteners

Device is furnished with standard 575 strike in dull black finish. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. Optional strikes and finishes are available. For strike applications, dimensions, and minimum door stile information, refer to pages 12-13.

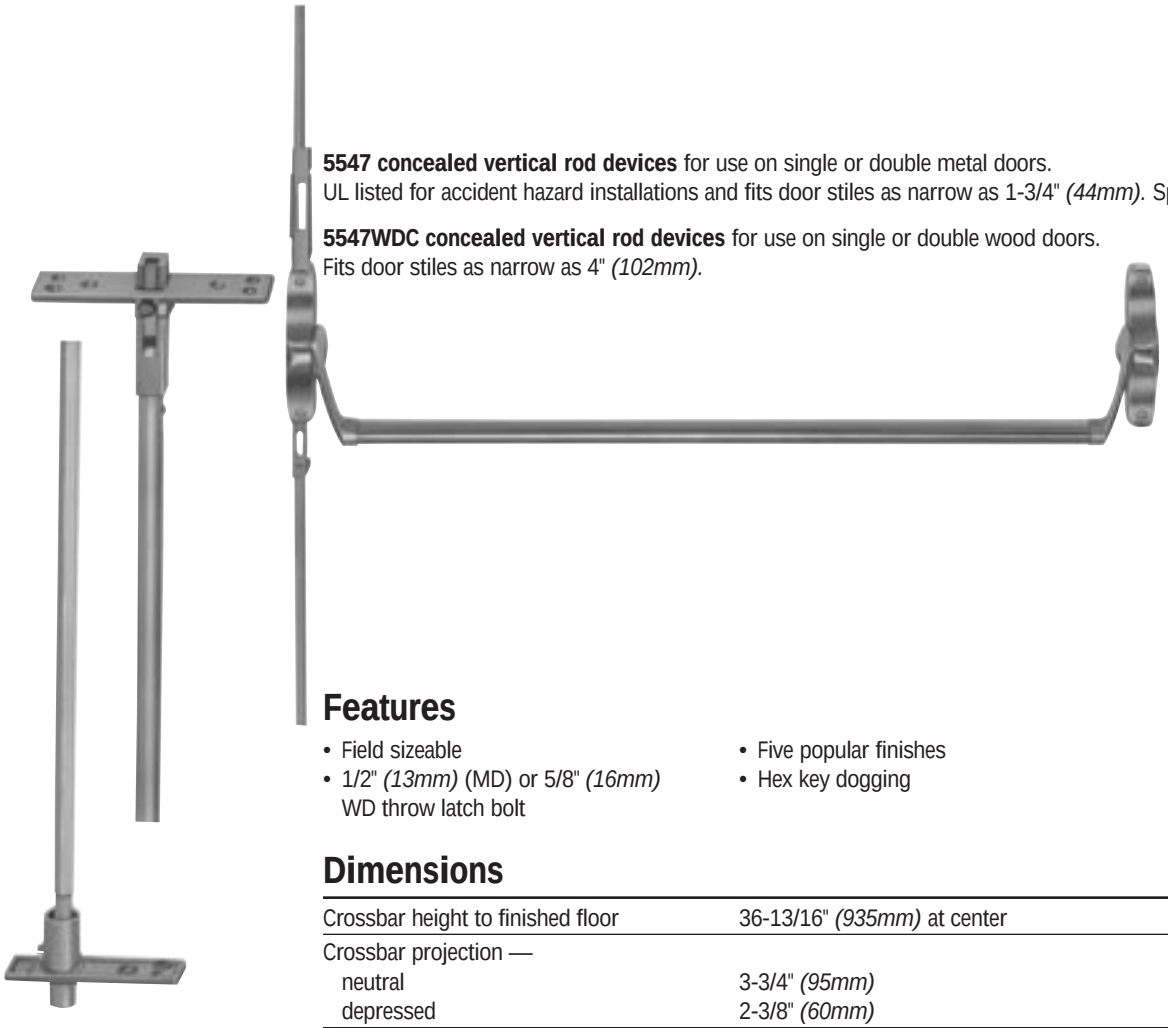
Outside Trim

Standard

375L
550DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.



5547 concealed vertical rod devices for use on single or double metal doors.
UL listed for accident hazard installations and fits door stiles as narrow as 1-3/4" *(44mm).* Specify if 2-1/4" door.

5547WDC concealed vertical rod devices for use on single or double wood doors.
Fits door stiles as narrow as 4" *(102mm).*

Features

- Field sizeable
- 1/2" *(13mm)* (MD) or 5/8" *(16mm)* WD throw latch bolt
- Five popular finishes
- Hex key dogging

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Vertical rods-hexagon	3/8" *(10mm)* adjustable top rod
Crossbar tubing	1" *(25mm)*

Note: Maximum door undercut, 1/4" *(6mm)*.



471U **304L** **338**

Strikes and Fasteners

5547 is furnished standard with 471U and 304L.

5547WDC is furnished standard with 338 and 304L.

Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. For strike dimensions and optional strike information, refer to pages 12-13.

Outside Trim

Standard

555NL
550DT
376T x 550DT

Optional

Wood Door
556NL
550DT
376T (WDC) x 550DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.

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575

5575-F fire exit mortise lock devices for 4' x 10' *(1219mm x 3048mm)* single or 8' x 8' *(2438mm x 2438mm)* double metal doors, UL listed for up to 3 hour labeled installations. Fits door stiles as narrow as 4-3/4" *(121mm).*

The 7500 mortise lock is equipped with a 3/4" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel. Wood door required 589 cover plate.

Features

- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Latch bolt height to finished floor	40-3/32" *(1018mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Lock case	4-5/8" x 5-3/4" x 1-1/16" *(117mm x 146mm x 27mm)*
Faceplate	1-1/4" x 8" x 7/32" *(32mm x 203mm x 6mm)*
Cylinder backset	2-3/4" *(70mm)*
Crossbar tubing	1" *(25mm)*

Strikes and Fasteners

Device is furnished with standard 575 strike in dull black finish. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. Optional strike and finishes are available. For strike applications, dimensions, and minimum door stile information, refer to pages 12-13.

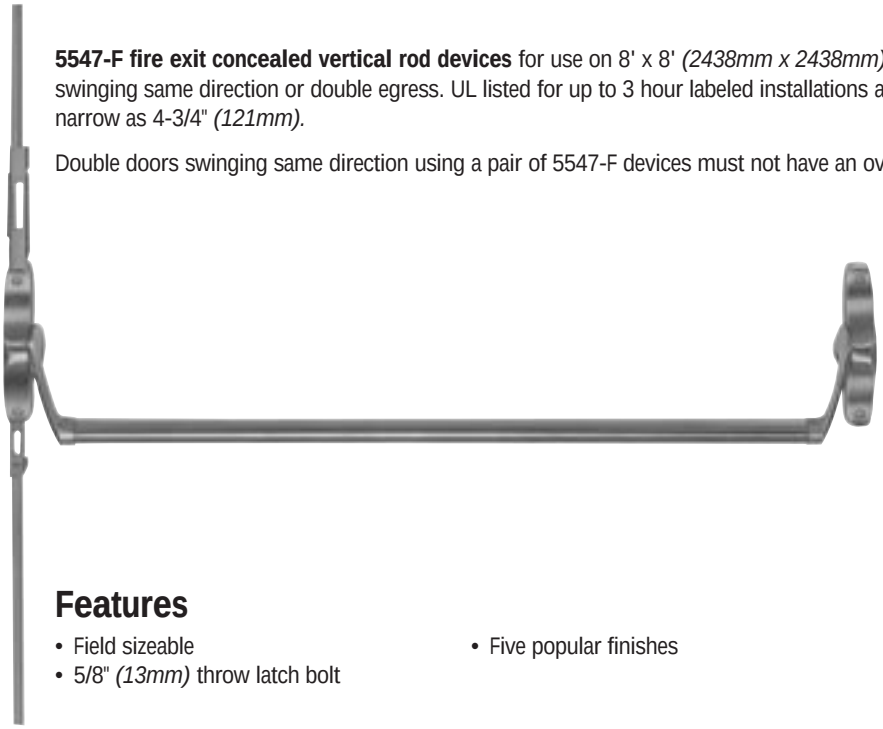
Outside Trim

Standard
550DT
375L

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.





5547-F fire exit concealed vertical rod devices for use on 8' x 8' *(2438mm x 2438mm)* double metal doors swinging same direction or double egress. UL listed for up to 3 hour labeled installations and fits door stiles as narrow as 4-3/4" *(121mm)*.

Double doors swinging same direction using a pair of 5547-F devices must not have an overlapping astragal.

Features

- Field sizeable
- 5/8" *(13mm)* throw latch bolt
- Five popular finishes

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Vertical rods	3/8" *(10mm)* hexagon
Crossbar tubing	1" *(25mm)*

Note: Maximum door undercut, 1/4" *(6mm)*.



301L

Strikes and Fasteners

Device is furnished with standard 301L strike. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. For strike dimensions and optional strike information, refer to pages 12-13.

Outside Trim

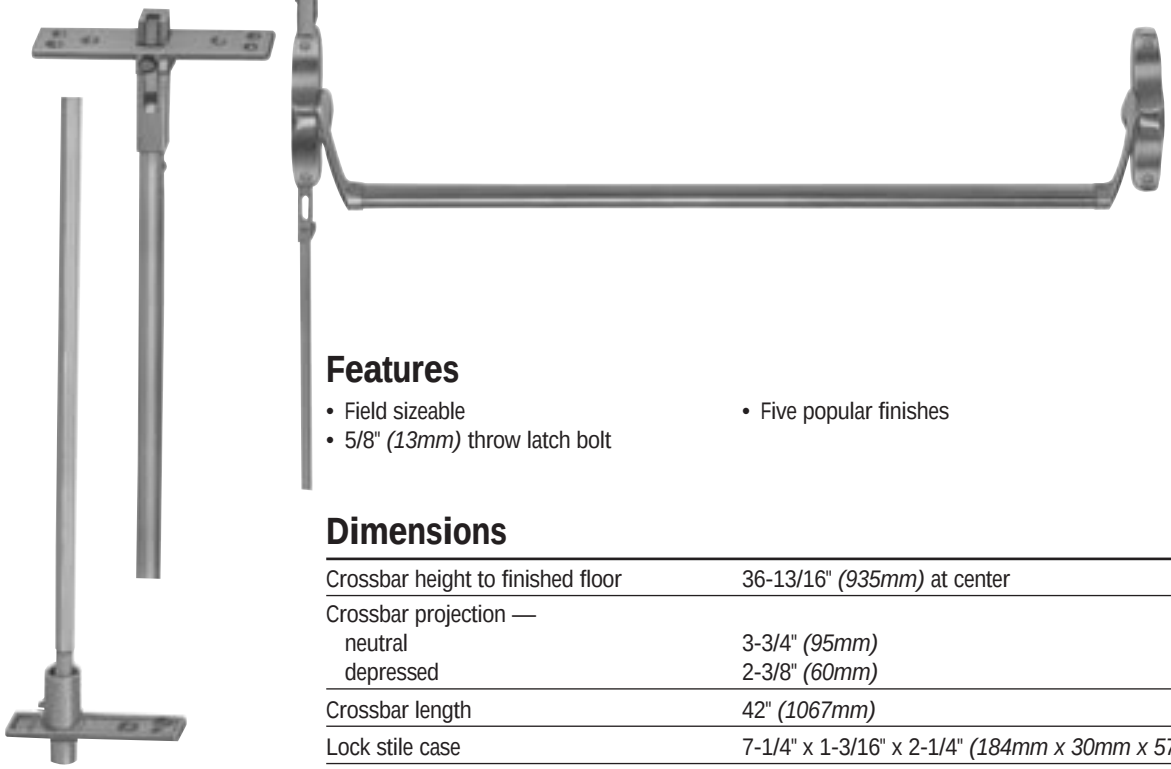
Standard

371L
376T x 609DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.

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5547WDC-F fire exit concealed vertical rod devices for use on 8' x 9'3" *(2438mm x 2819mm)* double wood doors swinging same direction or double egress. UL listed for up to 90 minute doors and fits stiles as narrow as 4-3/4" *(121mm)*.

Double doors swinging same direction using a pair of 5547WDC-F devices must not have an overlapping astragal.

Features

- Field sizeable
- 5/8" *(13mm)* throw latch bolt
- Five popular finishes

Dimensions

Crossbar height to finished floor	36-13/16" *(935mm)* at center
Crossbar projection —	
neutral	3-3/4" *(95mm)*
depressed	2-3/8" *(60mm)*
Crossbar length	42" *(1067mm)*
Lock stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Hinge stile case	7-1/4" x 1-3/16" x 2-1/4" *(184mm x 30mm x 57mm)*
Vertical rods	3/8" *(10mm)* hexagon
Crossbar tubing	1" *(25mm)*

Note: Maximum door undercut, 1/4" *(6mm)*.



304L **338**

Strikes and Fasteners

Device is furnished with standard 338 and 304L strikes. Sex nuts and bolts for mounting are included for 1-3/4" *(44mm)* and 2-1/4" *(57mm)* thick doors. For strike dimensions and optional strike information, refer to pages 12-13.

Outside Trim

Standard

376T x 550DT

For complete outside trim information, see pages 10-11.

For How-To-Order Information on all devices, see page 17.

Function		01 Exit Only	02 Pull When Dogged	03 Key Retracts Latch Bolt	08 Key Locks Lever	08 Key Locks Lever	11 Key Locks Thumbturn (Pull Required)
Trim Number and Dimensions		**55EO**	**55DT**	**55NL**	**371-L**	**375-L**	**376DT x 609DT**
Device/Trim Center Line To Finished Floor							
Projection		—	2-5/8" *(67mm)* 1-7/8" *(48mm)*	2-5/8" *(67mm)* 1-7/8" *(48mm)*	2-5/8" *(67mm)*	—	1-13/16" *(46mm)*
Rim	Panic	55EO	55DT	55NL	—	—	—
	Ctr. Line	**A** 39-13/16" *(1011mm)*	**A** 39-13/16" *(1011mm)* **B** 39-13/16" *(1011mm)*	**A** 39-13/16" *(1011mm)* **B** 39-13/16" *(1011mm)*	—	—	—
Mortise Lock	Panic	5575EO	5575DT	5575NL	—	5575L	—
	Fire	5575EO-F	—	5575NL-F	—	5575L-F	—
	Ctr. Line	—	—	—	—	**A** 39-13/16" *(1011mm)* **B** 38-1/2" *(978mm)*	—
Concealed Vertical Rod Lock	Panic	5547EO	5547DT	5547NL	—	—	5547TL
	Fire	5547EO-F	—	—	5547L-F	—	5547TL-F
	Ctr. Line	—	—	—	**A** 39-13/16" *(1011mm)* **B** 40-7/16" *(1027mm)*		**A** 39-13/16" *(1011mm)* **B** 53-1/2" *(1359mm)*
Additional SNB requirements		2	2	2	2	2	2
Cylinder Type Required	Rim	—	—	Rim	—	—	—
	Mortise	—	—	Mortise	—	—	—
	C.V.R.	—	—	Rim	Mortise	Mortise	Mortise

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550DT | Rim 555NL | 556NL



376T | 371L Concealed Vertical Rod

Standard Trim

Series 550

Heavy aluminum bracket with 10" *(25mm)* stainless steel or brass pull bar. 550DT with NL function is furnished with 110MD or WD. On 555NL (Metal) and 556NL (Wood), the cylinder locates in pull return. Cylinder must be ordered separately.

Series 550

Heavy aluminum brackets with 10" *(25mm)* stainless steel or brass pull bar. DT function only.

Series 376T

Thumbturn control has a forged brass 7/8" *(25mm)* thick escutcheon. Often used with DT trim or pull. An NL cylinder plate is included for thumbturn operation only when key is used for vertical rod or mortise device. BE blank escutcheon is available, specify 376T-BE.

Series 370L

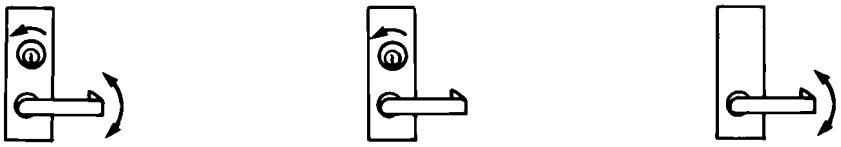
Lever control has a forged brass 7/8" *(25mm)* thick escutcheon. Optional lever designs are available. An NL cylinder plate is included for lever operation only when key is used for vertical rod or mortise device. BE Blank escutcheon is available, specify 371L-BE.

Lever Design Options



#01 | #02 | #03 | #06 Standard | #07 | #12 | #17

Operation Options



Standard Operation — Key locks and unlocks lever.

NL Function — Lever is locked when key is removed.

Blank Escutcheon — Lever always active. BE suffix, e.g., 371L-BE.

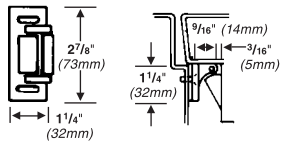
Strike Application/Minimum Stile

Device Type	Standard				Optional			
	Single door		Double door		Single door		Double door	
	Strike	Stile	Strike w/Mullion	Stile	Strike	Stile	Strike w/Mullion***	Stile
55 Rim	1409	1-3/4" *(44mm)*	1408 x 5754	1-3/4" *(44mm)*	299 1410 1606 264	2-13/16" *(71mm)* 1-3/4" *(44mm)* 2-3/8" *(60mm)* 2-9/16" *(65mm)*	299 x 5654 264 x 5654 1606 x 1654 299 x 4954 264 x 4954	2-3/4" *(70mm)* 2-1/2" *(64mm)* 2-3/4" *(70mm)* 3-3/16" *(81mm)* 2-5/16" *(75mm)*
5575	575	4-3/4" *(121mm)*	—	—	—	—	575-2 576A-576B	4-3/4" *(121mm)*
5575-F	575	4-3/4" *(121mm)*	—	—	—	—	575-2 576A-576B	4-3/4" *(121mm)*
5547	Strike 471U (Top) 301L (Bottom)		Stile Single door Two vertical rod devices Vertical rod w/mortise lock device	1-7/8" *(48mm)* 1-3/4" *(44mm)* 4-3/4" *(121mm)*	Strike 472U/473U (Top) For Wood Frames		Stile Single door Two vertical rod devices Vertical rod w/mortise lock device	1-7/8" *(48mm)* 1-3/4" *(44mm)* 4-3/4" *(121mm)*
5547WDC	338 (Top) 301L (Bottom)		Single door Two vertical rod devices	4" *(127mm)* 4" *(127mm)*	472U/473U (Top) For Wood Frames		Single door Two vertical rod devices	4" *(127mm)* 4" *(127mm)*
5547-F	Soffit Latch (Top) 301L (Bottom)		Two vertical rod devices Vertical rod w/mortise device	4-3/4" *(121mm)* 4-3/4" *(121mm)*	385A (Bottom)		Vertical rod w/mortise lock device	4-3/4" *(121mm)*
5547WDC-F	338 (Top) 301L (Bottom)		Two vertical rod devices	4" *(127mm)*	472U/473U (Top) For Wood Frames		Two vertical rod devices	4" *(127mm)*

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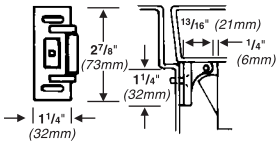
Strikes for Rim Devices

264



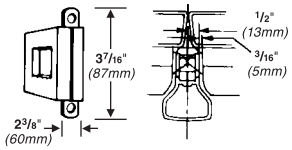
Projection 13/16" *(21mm)*

299



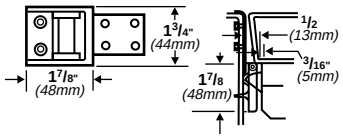
Projection 13/16" *(21mm)*

1408



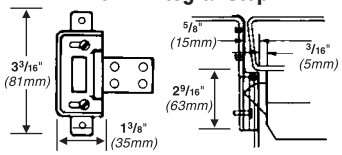
Projection 13/16" *(21mm)*

1409 — Blade Stop



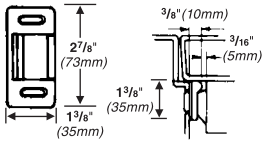
One per pair of doors

1410 — Integral Stop



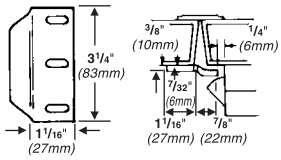
Projection 1/2" *(13mm)*

1606



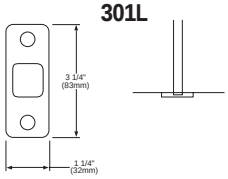
Projection 3/8" *(10mm)*

1609



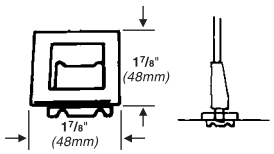
Strikes for Vertical Rod Devices

301L



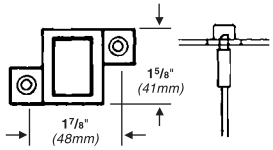
Mortise 3/4" *(19mm)*

304L



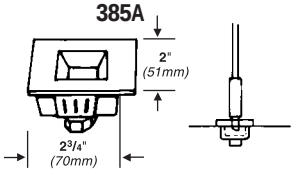
Mortise 13/16" *(21mm)*

338



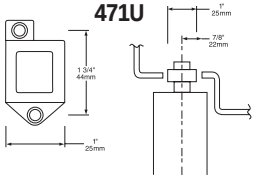
Projection 5/8" *(16mm)*

385A



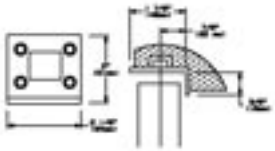
Mortise 2-1/2" *(64mm)*

471U

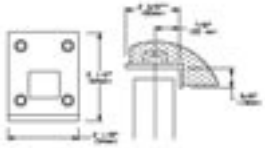


Hollow metal frame

472U



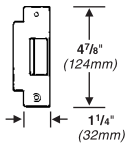
Wood frame 1-3/4" *(44mm) thick doors*



Wood frame 2-1/4" *(57mm) thick doors*

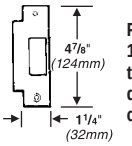
Strikes for Mortise Lock Devices

575



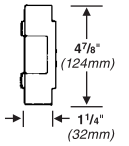
For use on 1-3/4" *(44mm)* **or 2-1/4"** *(57mm)* **Single door and 2-1/4"** *(57mm)* **double door with coordinator.**

575-2



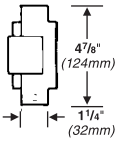
For use on 1-3/4" *(44mm)* **thick double door with coordinator.**

576A



Open back strike for 1-3/4" *(44mm)* **thick double doors without coordinator.**

576B



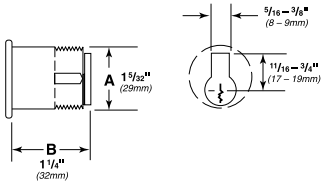
Open back strike for 2-1/4" *(57mm)* **thick double doors without coordinator.**

Cylinders

Cylinders are not furnished with device or trim and must be specified when ordering. Rim and concealed vertical rod exit devices use rim type cylinders. Mortise lock exit devices and series 370 controls use mortise type cylinders.

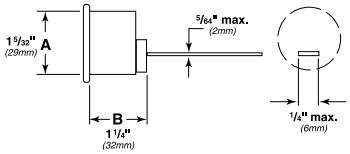


Mortise — 3215 (Schlage D502-191 cam)





Rim — 3216



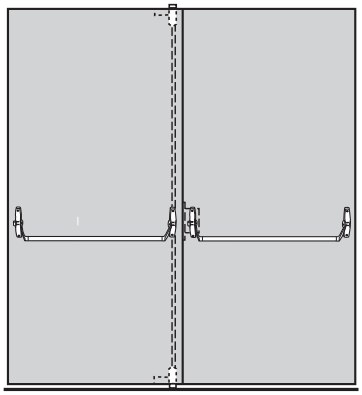
Conversion Kit — NL

For converting 55DT or 55EO to 55NL for night latch function. The kit includes 110NL cylinder assembly and cam. The 550DT trim and 3216 rim cylinder are not included.

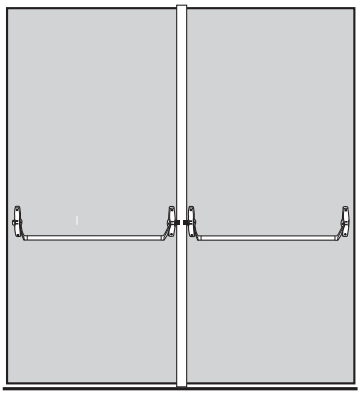
Order 55CK-NL, specify finish.

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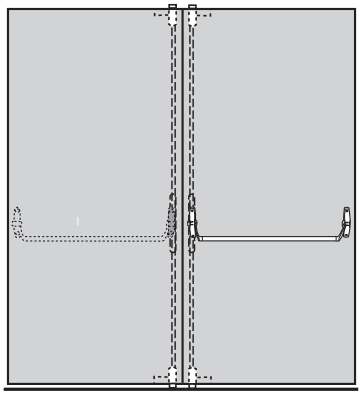
Popular Double Door Applications



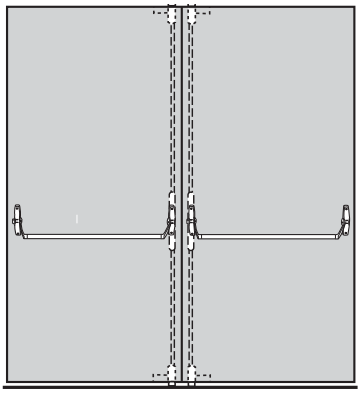
Mortise lock and vertical rod device combination — same direction



Two rim devices with mullion — same direction



Two vertical rods — double egress



Two vertical rod devices — same direction (do not use with overlapping astragal)

UL Listed — Fire Exit Hardware Label/Opening Size

Exit Device	Single Door	Double Door		
		Same Direction Vert./Vert.	Same Direction Vert./Mortise	Double Egress
5575-F	3 Hour 4' x 10'	—	3 Hour 8' x 8'	—
5547-F	—	90 Min. 8' x 8'	3 Hour 8' x 8'	3 Hour 8' x 8'
5547-F-WDC	—	90 Min. 8' x 9'3"	—	—

ANSI Grade, Type & Function

Function	Grade 1 Type 1 & 4	Grade 1 Type 3 & 10	Grade 1 Type 6 & 8
01	55EO	5575EO, 5575EO-F	5547EO, 5547EO-F
02	55DT	5575DT	5547DT
03	55NL	5575NL, 5575NL-F	5547NL
08	—	—	5547L-F
11-12	—	—	5547TL, 5547TL-F
11-12	—	—	5547TL-WDC, 5547TL-WDC-F

Finishes

Color	US Number	BHMA Number
Brass, Polished	US3	BHMA605
Brass, Dull	US4	BHMA606
Brass, Dull-oxidized	US10B	BHMA613
Bronze, Dull	US10	BHMA612
Chrome, Polished	US26	BHMA625
Chrome, Dull	US26D	BHMA626

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How-To-Order Information

Rim and mortise lock devices, specify:

1. Exit device model number and trim selection.
   Examples: 55EO (exit only and no outside trim).
   55DT (includes standard 555 DT trim).
2. Door width if greater than 4' *(1219mm)*.
3. Door thickness if other than 1-3/4" *(44mm)*.
4. Door and frame material if other than hollow metal.
5. Finish, see page 16.
6. Handing, LHR or RHR. See below.

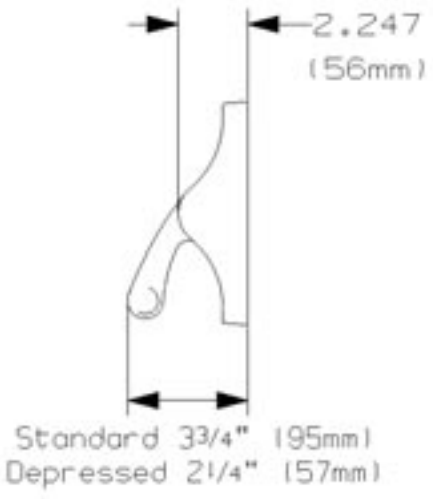
Vertical rod devices, specify:

1. Exit device model number and trim selection.
   Examples: 5547EO (exit only and no outside trim).
   5547NL (includes standard 555 NL trim).
2. Door width if greater than 4' *(1219mm)*.
3. Door thickness if other than 1-3/4" *(44mm)*.
4. Door height if other than 8' *(2438mm)*, extension rods must be ordered.
5. Door and frame material if other than hollow metal.
6. Finish, see page 16.
7. Handing, LHR or RHR. See below.

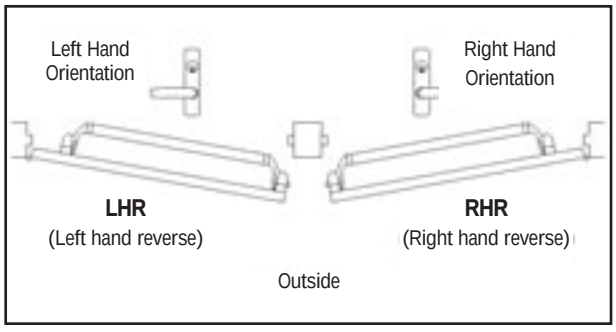
Dimensions



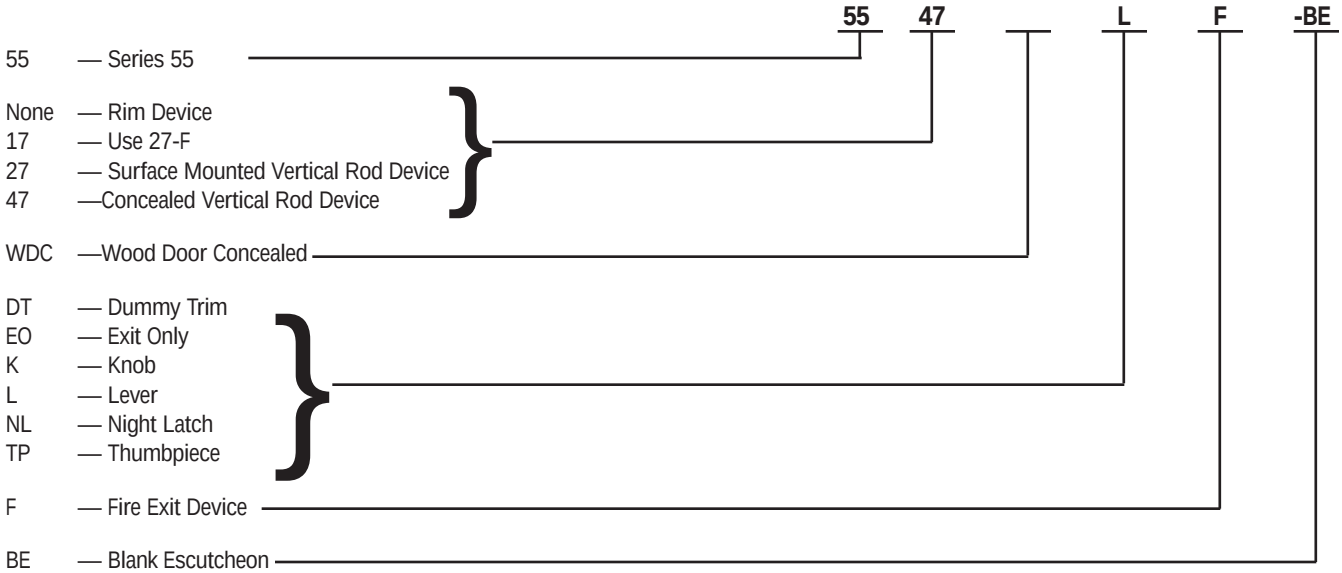
Standard 3-3/4" *(96mm)*
Depressed 2-1/4" *(57mm)*



Handing of Doors



Nomenclature



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55 Series Exit Devices



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VON DUPRIN®

88 Series Exit Device



INGERSOLL-RAND
ARCHITECTURAL HARDWARE

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INTRODUCTION

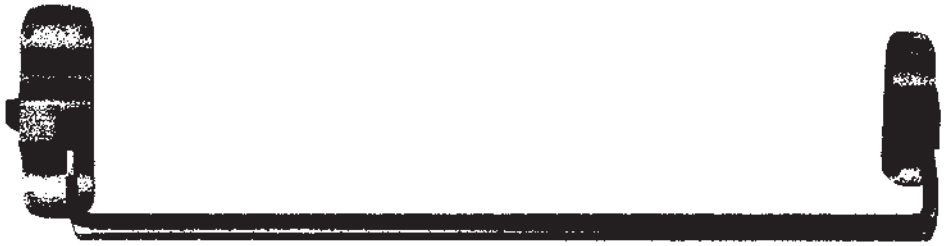
The proper selection and application of exit hardware, in addition to safety, are major concerns to all responsible manufacturers. Exit devices are a critical part of a door opening or access system and will provide safe and reliable service when properly applied and maintained. It is the policy of Von Duprin Division, Ingersoll-Rand Company, to design and manufacture exit devices to a high standard of quality and reliability in accordance with accepted U.S. domestic and international standards. All 88 series exit devices are UL listed for Accident Hazard and Fire Exit Hardware, and are tested in accordance to ANSI A156.3, 1994, Grade I.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended that whenever an unusual application condition exists, or when any modification of a product is considered, our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.

VON DUPRIN®
88 Rim Device





299

88 rim devices for all types of single and double doors with mullion, UL listed for accident hazard installations. Covers stock hollow metal doors with 86 or 161* cutouts.

FEATURES

- Field reversible
- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Five popular finishes
- Hex key dogging

DIMENSIONS

Crossbar height to finished floor	36 13/16" *(935mm)* at center
Crossbar projection — neutral depressed	 4 3/4" *(121mm)* 4" *(102mm)*
Crossbar length	42" *(1067mm)* field sizeable
Lock stile case	8 1/4" × 2 3/4" × 15/16" *(210mm × 70mm × 24mm)*
Hinge stile case	6" × 1 3/4" × 15/16" *(152mm × 44mm × 24mm)*
Crossbar tubing	1" *(25mm)*

STRIKE AND FASTENERS

Device is furnished standard with 299 strike in dull black finish. All necessary mounting fasteners are included. Optional strikes and finishes must be specified. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

DEVICE OPTIONS

E88 Electric rim device, page 16.

*Not applicable with all strike and mullion combinations, consult factory.

OUTSIDE TRIM

Standard

880NL-RV
880TP-RV
880DT
880K-RV
373L

Optional

608NL-RV
608TP-RV
608DT
606K-RV
880EO

For complete outside trim information, see pages 11-13.

How-To-Order information on all devices, see page 22.

VON DUPRIN®
88 Mortise Lock Device





575

8875 mortise lock devices for all types of single or double doors, UL listed for accident hazard installations. Fits stock hollow metal doors with 86 cutouts and door stiles as narrow as 4 3/4" *(121mm).*

The 7500 mortise lock is equipped with a 3/4" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a nonhanded auxiliary bolt for deadlocking and a faceplace with an adjustable bevel. Field selection of functions are furnished standard. TP, K or L function may be field selected by removing a set screw. Electric locking or unlocking options are available, refer to pages 18-19.

FEATURES

- Field sizeable
- 3/4" *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes
- Hex key dogging

DIMENSIONS

Crossbar height to finished floor Latch bolt height to finished floor	36 13/16" *(935mm)* at center 40 3/32" *(1018mm)* at center
Crossbar projection — neutral depressed	 4 7/8" *(124mm)* 4" *(102mm)*
Crossbar length	42" *(1067mm)* field sizeable
Lock stile case	8 1/4" × 2" × 15/16" *(210mm × 51mm × 24mm)*
Hinge stile case	6" × 1 3/4" × 15/16" *(152mm × 44mm × 24mm)*
Crossbar tubing	1" *(25mm)*
Lock case	4 5/8" × 5 3/4" × 1 3/16" *(117mm × 146mm × 46mm)*
Face plate	1 1/4" × 8" × 7/32" *(32mm × 203mm × 6mm)*
Cylinder backset	2 3/4" *(70mm)*

OUTSIDE TRIM

Standard

880NL-M
880TP-M
880DT
880K-M
373L

Optional

608NL-M
608TP-M
608DT
606K-M
880EO

For complete outside trim information, see pages 11-13.

STRIKE AND FASTENERS

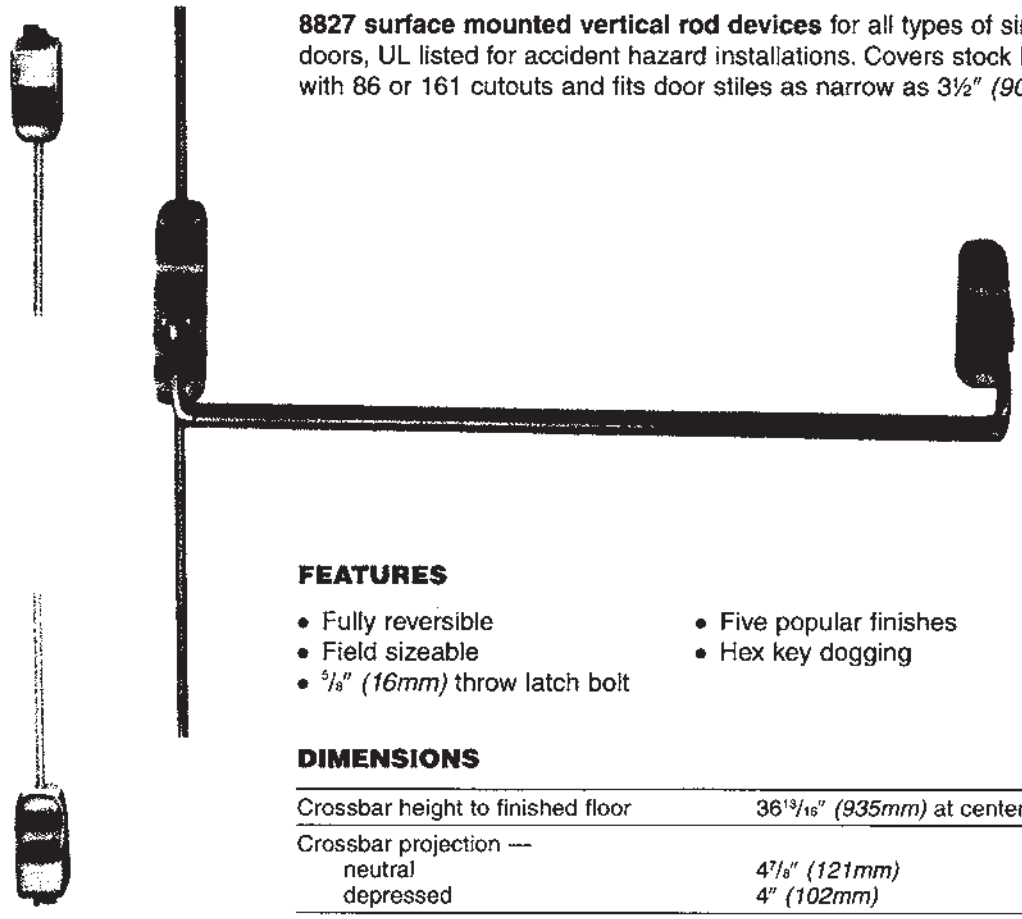
Device is furnished with standard 575 strike in dull black. All necessary mounting fasteners are included. Optional strikes and finishes must be specified. For strike applications, dimensions and minimum door stile information, refer to pages 14-15.

DEVICE OPTIONS

E8875 Electric mortise lock device, page 17.

How-To-Order information on all devices, see page 22.

88 Surface Mounted Vertical Rod Device



8827 surface mounted vertical rod devices for all types of single and double doors, UL listed for accident hazard installations. Covers stock hollow metal doors with 86 or 161 cutouts and fits door stiles as narrow as 3½″ *(90mm)*.

FEATURES

- Fully reversible
- Field sizeable
- ⅝″ *(16mm)* throw latch bolt
- Five popular finishes
- Hex key dogging

DIMENSIONS

Crossbar height to finished floor	36 13/16″ *(935mm)* at center
Crossbar projection — neutral depressed	4 7/8″ *(121mm)* 4″ *(102mm)*
Crossbar width	42″ *(1067mm)* field sizeable
Lock stile case	8 1/4″ × 2″ × 15/16″ *(210mm × 51mm × 24mm)*
Hinge stile case	6″ × 1 3/4″ × 15/16″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*
Top and Bottom latch case	4″ × 2″ × 1 7/8″ *(102mm × 51mm × 48mm)*
Vertical Rod	½″ *(13mm)* tubing

Note: Maximum door undercut, ¼″ *(6mm)*.



299 248L-4 304L

OUTSIDE TRIM

Standard

880TP-RV
880DT
880K-RV
373L
377T × 880DT

Optional

608TP-RV
608DT
606K-RV
880EO

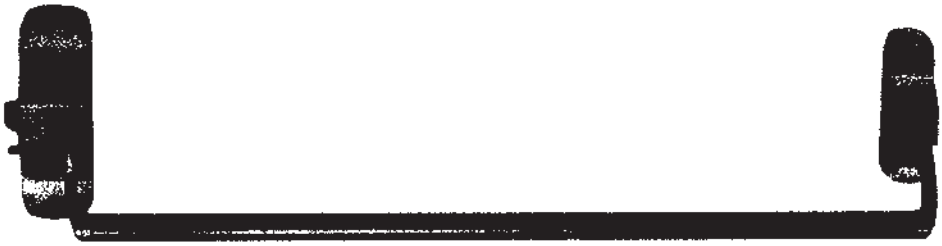
For complete outside trim information, see pages 11-13.

STRIKES AND FASTENERS

Device is furnished standard with 299 (in dull black), 248L-4 and 304L strikes. All necessary mounting fasteners are included. Optional strikes and finishes must be specified. For strike applications, dimensions and minimum door stile information, refer to pages 14-15.

Rod and latch guards are available. For complete information refer to page 18.

VON DUPRIN®
88 Fire Exit Rim Mortise





268

88-F fire exit rim devices for all types of 4′ × 8′ *(1219mm × 2438mm)* single and 8′ × 8′ *(2438mm × 2438mm)* double doors with 9954 mullion, UL listed, 3 hours.

FEATURES

- Field sizeable
- 3/4″ *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes

DIMENSIONS

Crossbar height to finished floor	36 13/16″ *(935mm)* at centerr
Crossbar projection — neutral depressed	4 7/8″ *(121mm)* 4″ *(102mm)*
Crossbar length	42″ *(1067mm)* field sizeable
Lock stile case	8 1/4″ × 2 3/4″ × 15/16″ *(210mm × 70mm × 24mm)*
Hinge stile case	6″ × 1 3/4″ × 15/16″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*

STRIKE AND FASTENERS

Device is furnished with standard 268 strike in dull black. All necessary mounting fasteners are included. Optional finishes must be specified. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

DEVICE OPTIONS

E-88-F Electric Rim Device, page 16.

OUTSIDE TRIM

Standard

880NL-RV
880TP-RV
880K-RV
373L

Optional

608NL-RV
608TP-RV
606K-RV

For complete outside trim information, see pages 11-13.

For How-To-Order Information on all devices, see page 22.





575

8875-F fire exit mortise lock devices for all types of 4′ × 10′ *(1219mm × 3048mm)* single or 8′ × 8′ *(2438mm × 2438mm)* double doors, UL listed, 3 hours. Fits door stiles as narrow as 4 3/4″ *(121mm)*.

The 7500 mortise lock is equipped with a 3/4″ *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a nonhanded auxiliary bolt for deadlocking and a faceplace with an adjustable bevel. Field selection of functions are furnished standard. TP, K, or L function may be field selected by removing a set screw. Electric locking or unlocking options are available; refer to pages 16-17.

FEATURES

- Field sizeable
- 3/4″ *(19mm)* throw latch bolt
- Latch bolt deadlocking
- Five popular finishes

DIMENSIONS

Crossbar height to finished floor Latch bolt height to finished floor	36 13/16″ *(935mm)* at center 40 3/32″ *(1018mm)* at center
Crossbar projection — neutral depressed	 4 7/8″ *(124mm)* 4″ *(102mm)*
Crossbar length	42″ *(1067mm)* field sizeable
Lock stile case	8 1/4″ × 2″ × 15/16″ *(210mm × 51mm × 24mm)*
Hinge stile case	6″ × 1 3/4″ × 15/16″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*
Lock case *(117mm × 146mm × 46mm)*	4 5/8″ × 5 3/4″ × 1 3/16″
Face plate	1 1/4″ × 8″ × 7/32″ *(32mm × 203mm × 6mm)*
Cylinder backset	2 3/4″ *(70mm)*

OUTSIDE TRIM

Standard

880NL-M
880TP-M
880K-M
373L

Optional

608NL-M
608TP-M
606K-M
880EO

For complete outside trim information, see pages 11-13.

STRIKE AND FASTENERS

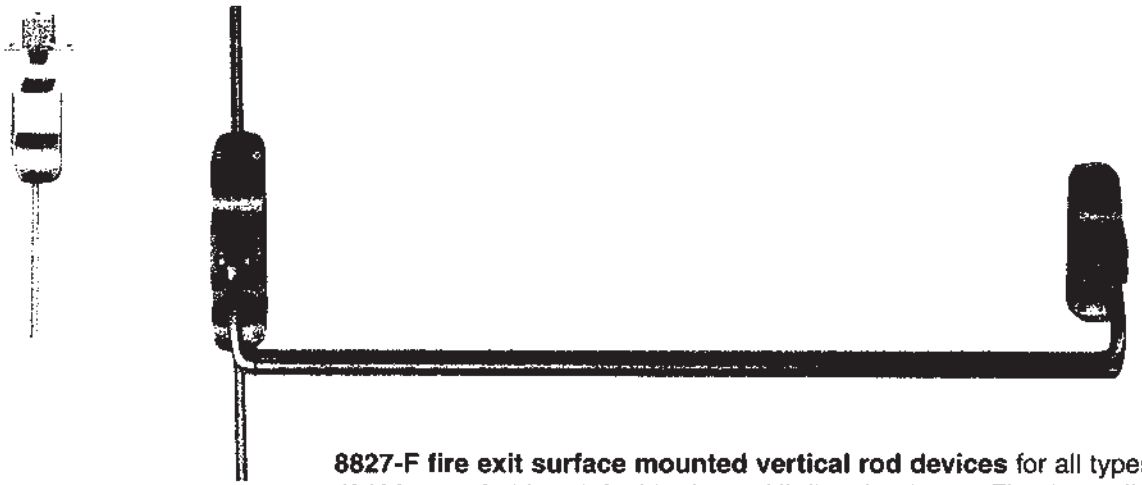
Device is furnished with standard 575 strike in dull black. All necessary mounting fasteners are included. Optional strikes and finishes must be specified. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

DEVICE OPTIONS

E8875-F Electric mortise lock device, page 17.

For How-To-Order Information on all devices, see page 22.

88 Fire Exit Surface Mounted Vertical Rod Device







8827-F fire exit surface mounted vertical rod devices for all types of 8′ × 8′ *(2438mm × 2438mm)* double doors, UL listed, 3 hours. Fits door stiles as narrow as 3 3/4″ *(95mm)*.

FEATURES

- Fully reversible
- Field sizeable
- 5/8″ *(16mm)* throw latch bolt
- Five popular finishes

DIMENSIONS

Crossbar height to finished floor	36 13/16″ *(935mm)* at center
Crossbar projection — neutral depressed	4 7/8″ *(124mm)* 4″ *(102mm)*
Crossbar length	42″ *(1067mm)* field sizeable
Lock stile case	8 1/4″ × 2″ × 15/16″ *(210mm × 51mm × 24mm)*
Hinge stile case	6″ × 1 3/4″ × 15/16″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*
Top or bottom latch case	4″ × 2″ × 1 7/8″ *(102mm × 51mm × 48mm)*
Vertical rod	1/2″ *(13mm)* tubing

Note: Maximum door undercut, 1/4″ *(6mm)*.

STRIKE AND FASTENERS

Device is furnished standard with 304L strike. All necessary mounting fasteners and the sex nuts and bolts required for the latches are included. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

Rod and latch guards are available. For complete information refer to page 18.

OUTSIDE TRIM

Standard

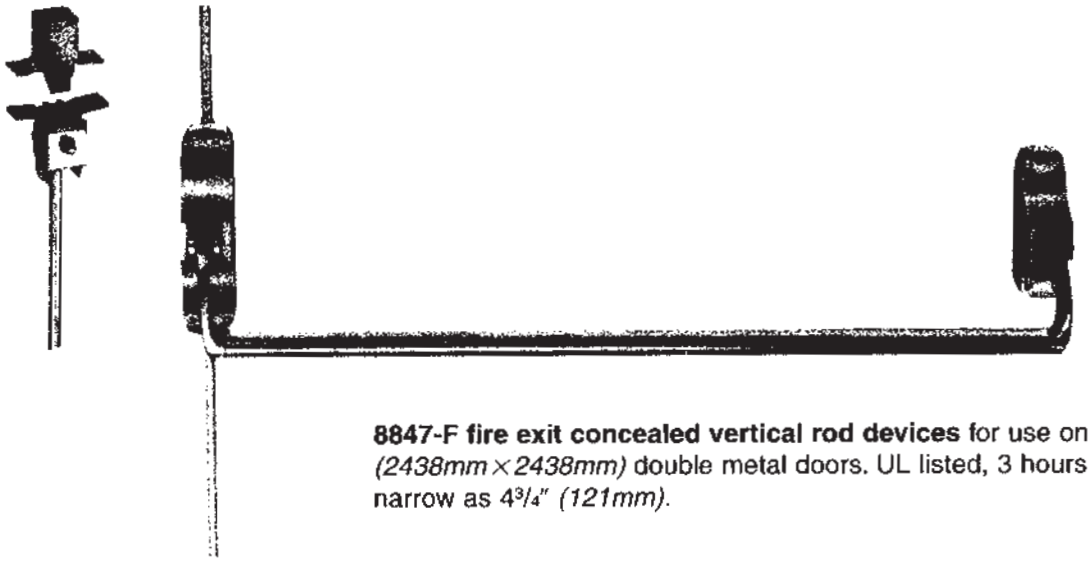
880TP-RV
880K-RV
373L
377T × 880DT

Optional

608TP-RV
606K-RV

For complete outside trim information, see pages 11-13.

For How-To-Order Information on all devices, see page 22.





301L

8847-F fire exit concealed vertical rod devices for use on 8′ × 8′ *(2438mm × 2438mm)* double metal doors. UL listed, 3 hours and fits door stiles as narrow as 4³/₄″ *(121mm)*.

FEATURES

- Field sizeable
- ⅝″ *(16mm)* throw latch bolt
- Five popular finishes

DIMENSIONS

Crossbar height to finished floor	36¹³/₁₆″ *(935mm)* at center
Crossbar projection — neutral depressed	4⅞″ *(124mm)* 4″ *(102mm)*
Crossbar length	42″ *(1067mm)* field sizeable
Lock stile case	8¼″ × 2″ × ¹⁵/₁₆″ *(210mm × 51mm × 24mm)*
Hinge stile case	6″ × 1¾″ × ¹⁵/₁₆″ *(152mm × 44mm × 24mm)*
Crossbar tubing	1″ *(25mm)*
Vertical rod	⅜″ *(10mm)* hexagon

Note: Maximum door undercut, ¼″ *(6mm)*.

STRIKE AND FASTENERS

Device is furnished standard with 301L strike. All necessary mounting fasteners are included. Optional strikes must be specified. For strike applications, dimensions, and minimum door stile information, refer to pages 14-15.

Rod and latch guards are available. For complete information refer to page 18.

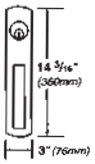
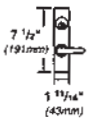
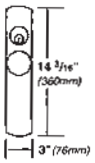
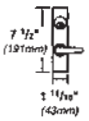
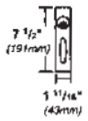
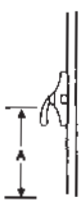
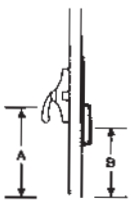
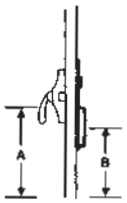
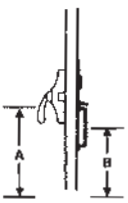
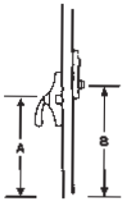
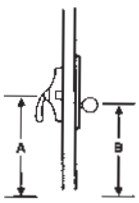
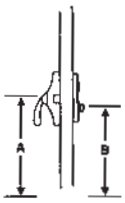
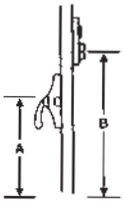
OUTSIDE TRIM

Standard
371L
376T × 880DT

For complete outside trim information, see pages 11-13.

For How-To-Order Information on all devices, see page 22.

VON DUPRIN®
88 Trim Selection

Function		01 Exit Only	02 Pull When Dogged	03 Key Retracts Latchbolt	05 Key Retracts Thumbpiece	06 Key Locks Lever	08 Key Locks Knob	08 Key Locks Lever	11/12 Key Locks Thumbturn
Trim Number and Dimensions			880DT 	880NL 	880TP 	371-L 	880K 	373-L 	377T or 376Tx 880DT-V 
Device/Trim Center Line To Finished Floor									
Projection —		—	2" (51mm)	2" (51mm)	2" (51mm)	2 5/8" (67mm)	2 3/4" (70mm)	2 5/8" (67mm)	1 13/16" (46mm)
Rim	Panic	88EO	88DT	88NL	88TP	—	88K	88L	—
	Fire	88EO-F	—	88NL-F▲	88TP-F▲	—	88K-F▲	88L-F■	—
	Ctr. Line	A 39 13/16" (1011mm) —	A 39 13/16" (1011mm) B 33 11/32" (847mm)	A 39 13/16" (1011mm) B 33 11/32" (847mm)	A 39 13/16" (1011mm) B 32 13/16" (833mm)	—	A 39 13/16" (1011mm) B 36 13/16" (935mm)	A 39 13/16" (1011mm) B 36 13/32" (935mm)	—
Mortise Lock	Panic	8875EO	8875DT	8875NL	8875TP	—	8875K	8875L	—
	Fire	8875EO-F	—	8875NL-F	8875TP-F	—	8875K-F	8875L-F	—
	Ctr. Line	A 39 13/16" (1011mm) —	A 39 13/16" (1011mm) B 33 1/2" (851mm)	A 39 13/16" (1011mm) B 33 1/2" (851mm)	A 39 13/16" (1011mm) B 33 1/2" (851mm)	—	A 39 13/16" (1011mm) B 38 9/16" (979mm)	A 39 13/16" (1011mm) B 38 9/16" (979mm)	—
Surface Mounted Vertical Rod	Panic	8827EO	8827DT	—	8827TP	—	8827K	8827L	8827TL
	Fire	8827EO-F	—	—	8827TP-F	—	8827K-F	8827L-F	8827TL-F
	Ctr. Line	A 39 13/16" (1011mm) —	A 39 13/16" (1011mm) B 33 1/2" (851mm)	—	A 39 13/16" (1011mm) B 33 1/2" (851mm)	—	A 39 13/16" (1011mm) B 38 5/16" (973mm)	A 39 13/16" (1011mm) B 38 5/16" (973mm)	A 39 13/16" (1011mm) B 53 1/2" (1359mm)
Concealed Vertical Rod	Fire	8847EO-F	—	—	—	8847L-F	—	—	8847TL-F
	Ctr. Line	A 39 13/16" (1011mm) —	—	—	—	A 39 13/16" (1011mm) B 41 11/16" (1059mm)	—	—	A 39 13/16" (1011mm) B 53 1/2" (1359mm)
Additional SNB requirements		4/8/16	4,12	4	4,12	4	4,12	4,12	4
Cylinder Type Required	Device Type Rim Mortise Vert. Rod C.V.R.	— — — —	— — — —	Rim Mortise — —	Rim Mortise Rim —	— — — Mortise	Rim Mortise Rim —	Mortise Mortise Mortise —	— — Mortise Mortise

▲*Requires Stainless Steel Trim for Wood or Composite Fire Doors.*
■*Requires 889 Plate for Wood or Composite Fire Doors.*
Note: 8827 uses 377T, 8847-F uses 376T.

STANDARD TRIM



880DT 880K 880NL 880TP 880EO 377T 373L

SERIES 880
Heavy 10 gauge *(2.4mm)* brass, bronze, or stainless steel. Available functions: 880DT, 880K, 880NL, and 880TP. Optional 880EO exit only trim plate is available. To order with the exit device, specify 88EOx880EO.

SERIES 377T
Thumbturn control has a forged brass 7/8" *(22mm)* thick escutcheon. Often used with DT trim or pull. An NL cylinder plate is included for thumbturn operation only when key is used. BE blank escutcheon is available, specify 377T-BE.

SERIES 373L
Lever control has a forged brass 7/8" *(22mm)* thick escutcheon. An NL cylinder plate is included for lever operation only when key is used. BE blank escutcheon is available, specify 373L-BE.

OPTIONAL TRIM



608DT 608NL 608TP 606K

SERIES 608
Narrow design 3/16" *(5mm)* thick brass, bronze, or stainless steel with flat pull grip. Available functions: 608DT, 608NL, and 608TP. When ordering with the exit device, specify 88NLx608NL.

SERIES 606K
Narrow design knob trim 3/16" *(5mm)* thick brass, bronze, or stainless steel 3/16" *(5mm)* escutcheon.

LEVER DESIGN OPTIONS



#01 #02 #03 #06 Standard #07 #12 #17

OPERATION OPTIONS — LEVER AND KNOB



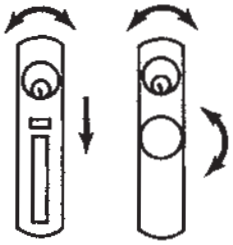
Standard Operation — Key locks and unlocks lever.



NL Function — Lever is locked when key is removed.



Blank Escutcheon — Lever always active. Use BE suffix, e.g., 373L-BE.



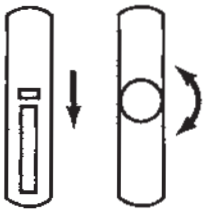
Standard Operation — Key locks and unlocks thumbpiece or knob.

TP-NL or K-NL Function — Trim is locked when key is removed (8827 & 8827-F only).



Night Latch — Key retracts latch bolt, knob is rigid.

Available with 88 Rim only. To order trim, specify 880K-R-Rigid.



Blank Escutcheon — Knob or thumbpiece always active, use BE suffix, e.g., 880K-BE.

CYLINDERS

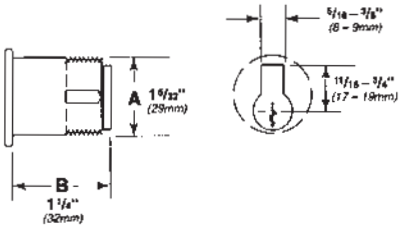
Cylinders are not furnished with device or trim and must be specified when ordering. Rim, surface vertical rod and concealed vertical rod exit devices use rim type cylinders. Mortise lock exit devices and series 370 controls use mortise type cylinders.

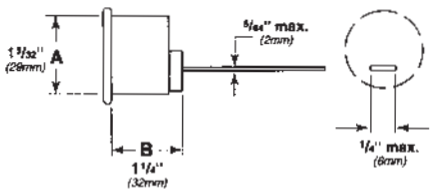


Mortise – 3215 (Schlage B502-191 cam)



Rim – 3216





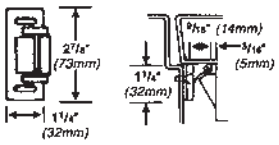
STRIKE APPLICATION/MINIMUM STILE

Device Type	Standard				Optional			
	Single door		Double door		Single door		Double door	
	Strike	Stile	Strike w/Mullion	Stile	Strike	Stile	Strike w/Mullion***	Stile
88	299	4 3/8" (111mm)	264 x 4954	4 11/16" (119mm)	264	4 1/8" (105mm)	299 x 5254/5654	4 1/4" (108mm)
					1409	3 3/8" (86mm)	264 x 5254/5654	4" (107mm)
							264 x 4954	4 7/16" (113mm)
					1606	3 15/16" (100mm)	1606 x 1654	4 1/4" (108mm)
					—	—	1609*	4" (107mm)
					—	—	1610**	4 7/16" (113mm)
88-F	268	4 3/8" (111mm)	268 x 9954	4 11/16" (119mm)	—	—	—	
	Strike	Stile	Strike	Stile	Strike	Stile	Strike	Stile
8875	575	4 3/4" (121mm)	—	—	—	—	575-2 576A-576B	4 3/4" (121mm)
8875-F	575	4 3/4" (121mm)	—	—	—	—	575-2 576A-576B	4 3/4" (121mm)
	Strike	Stile	Strike	Stile				
8827 Latch Retraction	299 (Top) 304L/248L-4 (Bottom)		Single door	2 13/16" (71mm)	260U (Top) 385A (Bottom)		Single door	2 13/16" (71mm)
			Two vertical rod devices	2 1/2" (64mm)			Two vertical rod devices	2 1/2" (64mm)
			Vertical rod w/mortise lock device	4 3/4" (121mm)			Vertical rod w/mortise lock device	4 3/4" (121mm)
8827-F	Soffit Latch (Top) 304L (Bottom)		Two vertical rod devices	3 3/4" (95mm)	385A (Bottom)			
			Vertical rod w/mortise lock device	4 3/4" (121mm)				
8847-F	Soffit Latch (Top) 301L (Bottom)		Two vertical rod devices	4 3/4" (121mm)	304L (Bottom)		Single door	4 3/4" (121mm)
			Vertical rod w/mortise lock device	4 3/4" (121mm)			Two vertical rod devices	3 3/4" (95mm)
							Vertical rod w/mortise lock device	4 3/4" (121mm)

*Use for rim/vertical rod combination — consult factory.
**Use for rim/vertical rod combination on stock hollow metal doors — consult factory.
***For mullion information, refer to the General and Auxiliary catalog.

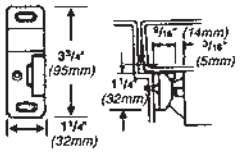
STRIKES FOR RIM DEVICES

264



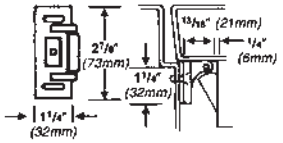
Projection 9/16" (14mm)

268



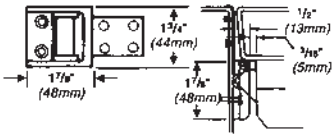
Projection 13/16" (21mm)

299



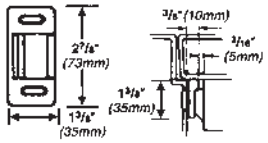
Projection 13/16" (21mm)

1409 – Blade Stop



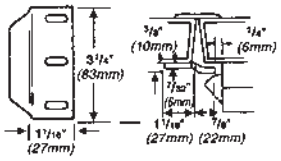
Projection 1/2" (13mm)

1606



Projection 3/8" (10mm)

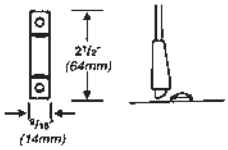
1609



For rim/vertical rod combination — consult factory

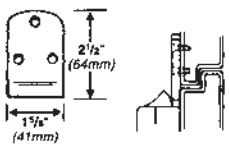
STRIKES FOR VERTICAL ROD DEVICES

248L-4



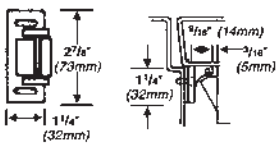
Projection 3/8" (10mm)

260U – Flush Transom Only



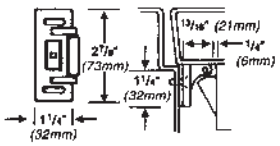
Projection 3/8" (10mm)

264



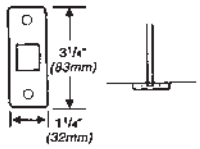
Projection 5/8" (16mm)

299



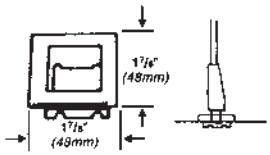
Mortise 2 1/2" (64mm)

301L



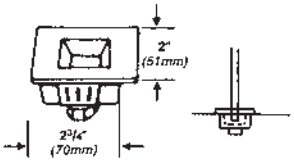
Mortise 3/4" (19mm)

304L



Mortise 13/16" (21mm)

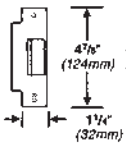
385A



Mortise 2 1/2" (64mm)

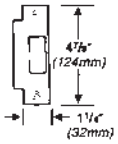
STRIKES FOR MORTISE LOCK DEVICES

575



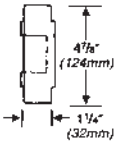
For use on 1 3/4" (44mm) or 2 1/4" (57mm) Single door and 2 1/4" (57mm) double door with coordinator.

575-2



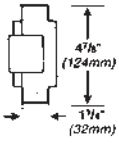
For use on 1 3/4" (44mm) thick double door with coordinator.

576A



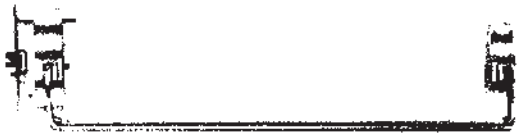
Open back strike for 1 3/4" (44mm) thick double doors without coordinator.

576B



Open back strike for 2 1/4" (57mm) thick double doors without coordinator.

E88 ELECTRIC RIM DEVICE



The E88 electric rim device provides remote unlocking capabilities. A control station operator can flip a switch to lock or unlock the outside trim. The 24 VDC solenoid assembly contains a SPDT signal switch to monitor the outside trim (locked or unlocked).

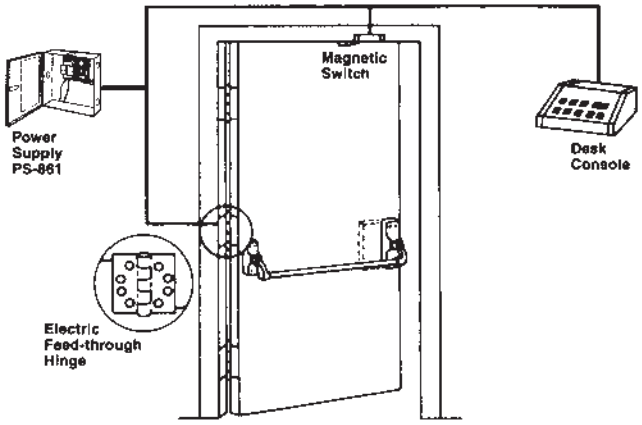
Available in fail safe or fail secure, 24 VDC or 24 VAC with rectifier. On fail secure models the trim returns to the locked mode after being operated either by the cylinder or momentary operation by the solenoid. The trim will remain unlocked if the solenoid remains energized.

Note: Some fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

Electrical Rating:
Each switch rated 0.3 Amp. 24 VDC.

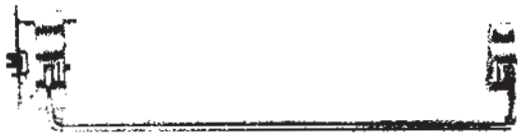
To order, specify:
1. Use prefix "E", example E88TP.
2. Handing, LHR or RHR, see page 22.
3. Voltage, 24 VDC or 24 VAC/SO.
4. FSE (fail secure) standard, specify FS (fail safe) when applicable.
5. Outside trim. "TP" or "K" function only

POPULAR E88 APPLICATION



Adaptable for openings where continuous latching is required while the trim may be electrically locked or unlocked from a remote location — stairwells, exterior doors, etc.

E8875 ELECTRIC MORTISE LOCK DEVICE



The E8875 electric mortise lock device has all the versatility and advantages of the 8875 mortise lock device, plus the advantage of being electrically controllable by a remote switching device, an access control or automatic device, or an automatic fire alarm system. The E8875 feature **controls the locking of the outside trim.** When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking, but require unlocking during a fire emergency. Key override is an NL type function.

Standard Features:
- Field reversible mortise lock
- 24 VDC continuous duty solenoid
- Tamper resistant (auxiliary dead latch)
- Silent operation
- Corrosion resistant
- Signalling functions
- Key mechanically retracts latchbolt.

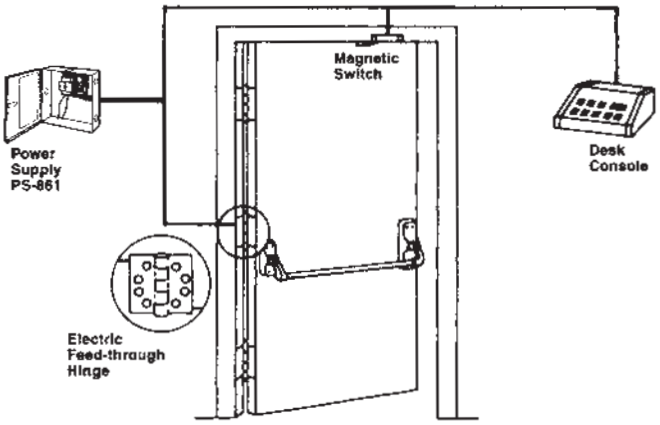
Optional Features:
- Fail safe (locked when energized, unlocked when de-energized or during power failure, specify with suffix "FS").
- Fail secure (unlocked when energized — specify with suffix "FSE"). Outside trim automatically relocks, unless held unlocked electrically.
- 24 VAC (by adding SO option).
- 12 VDC or 12 VAC with SO option.

Note: Some Fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

To order, specify:
1a. E8875 or E8875F.
1b. E7500 (if lock only is required).
2. FS or FSE.
3. Voltage.
4. Handing, LHR or RHR, see page 22.
5. Outside trim. "TP," "K," or "L-BE" function only. When using with "L" function, no cylinder operation is available. Outside control is furnished "BE".

Consult Electrical Accessories catalog for additional information.

POPULAR E8875 APPLICATION



Adaptable for openings where continuous latching is required while the trim may be electrically locked or unlocked from a remote location — stairwells, exterior doors, etc.

VERTICAL ROD AND LATCH GUARD — RG-27



Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. (If these bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.)

In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easily with the bumpers of a wheelchair. The latch guard portion is 10″ high. The standard latch guard features a 45° ramp. The extended latch guard offers a continuous ramp in 3′ or 4′ widths.

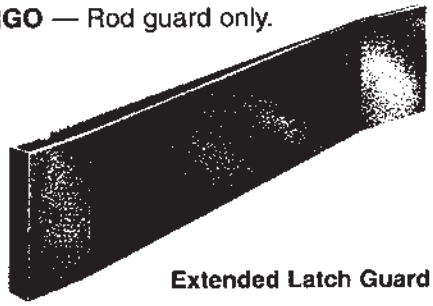


All stainless steel construction, in US32D finish. Latch guards can cover latches as large as 1¼″W × 10″H × 1⅞″ projection.

Models

RG-27 — Rod and latch guard.
RG-27-3 — 3′ *(914mm)* Extended rod and latch guard.
RG-27-4 — 4′ *(1219mm)* Extended rod and latch guard.

RGO — Rod guard only.

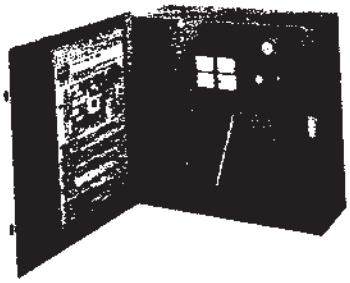


Extended Latch Guard

LGO — Latch guard only.
LGO-3 — 3′ *(914mm)* Extended latch guard only.
LGO-4 — 4′ *(1219mm)* Extended latch guard only.

To order, specify:
1. Model number

POWER SUPPLIES



Standard

UL Listed
Class 2, Power Supply
UL1012
UL1310

The series PS861 power supply is designed for electric locking or monitoring on single or double door applications. The output power is field selectable for either 24 VDC @ 1 ampere or 12 VDC @ 2 ampere. Standard input 120 VAC @ 0.6 ampere and 240 VAC @ 0.3 ampere available. Terminal block will accept up to 14 gauge stranded wire.

The gray enclosure is 10″ × 10″ × 4″ *(254mm × 254mm × 102mm)* has a hinged cover, and is constructed of heavy 19 gauge steel. Six ½″ *(13mm)* knockout holes are provided for conduit connection.

Options include keylock cover and sealed lead acid battery pack. The pair of batteries will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored.

FOUR MODELS:



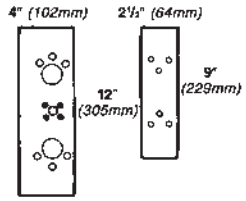
With keylock and batteries

PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861BK	Battery backup and keylock cover

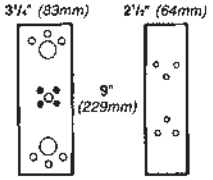
To order, specify:
1. Model number

COVER PLATE KITS

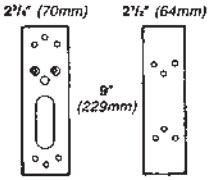
Devices



882



887



888

882 Kit

For 88 rim devices applied over mortise lock or discontinued device cutouts.

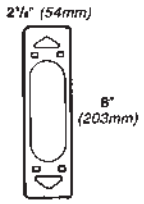
887 Kit

Required for 88 rim/ 8827 vertical rod device combinations on pairs of doors with ANSI 161 cutout. (The 88 rim device backset is increased and exposes the 161 cutout when used with 8827).

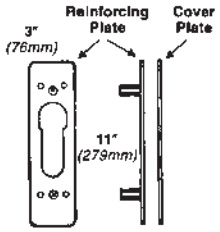
888 Kit

Required for 8875 mortise or 8827 vertical rod devices on doors with ANSI 161 cutouts (device center case will not cover stock cutout).

Controls



#10WDA



889

#10 WDA Kit

Required when 373L or 377T controls are used on wood doors with the following devices: 88L, 8827L, 8827TL, 8827TL-F, or 8875L (kit covers cutout and prevents control from damaging door).

889 Kit

Required when 373L controls are used with sex bolts (sex bolts must be used on wood or composite fire doors). Four studs on cover plate allow through-bolting to the device center case.

To order, specify:

1. Kit number.
2. Finish.
3. Device type (889 kit only).

AXLE SECURITY PIN

Non-removable security pin can be inserted into lever arm axle to prevent tampering or removal of lever arm.

To order, specify Part Number 033022 ***(package of 50).***

FINISHES

Color	US Number	BHMA Number
Brass, Polished	US 3	BHMA605
Brass, Dull	US4	BHMA606
Brass, Dull – oxidized	US10B	BHMA613
Chrome, Polished	US26	BHMA625
Chrome, Dull	US26D	BHMA626

Other finishes available, consult factory.

UL LISTED — FIRE EXIT HARDWARE LABEL/OPENING SIZE

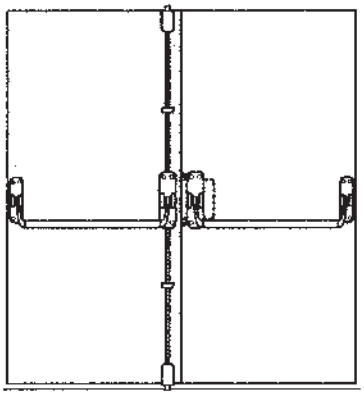
		Double Doors			
Exit Device	Single Door	With Mullion	Same Direction Vert./Vert.	Same Direction Vert./Mortise	Double Egress
88-F	3 Hour 4′×8′	3 Hour 8′×8′	—	—	—
8875-F	3 Hour 4′×10′	—	—	3 Hour 8′×10′	—
8827-F	—	—	90 Min.* 8′×8′	3 Hour 8′×8′	3 Hour 8′×8′
8847-F	—	—	90 Min. 8′×8′	3 Hour 8′×8′	3 Hour 8′×8′

*Wood door applications, 45 minute label.

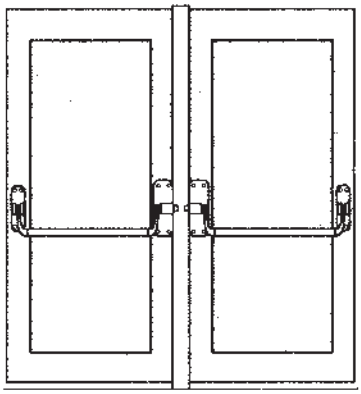
ANSI GRADE, TYPE & FUNCTION

Function	Grade 1 Type 1	Grade 1 Type 2	Grade 1 Type 3	Grade 1 Type 8
01	88EO, 88EO-F	8827EO, 8827EO-F	8875EO, 8875EO-F	8847EO-F
02	88DT	8827DT	8875DT	—
03	88NL, 88NL-F	—	8875NL, 8875NL-F	8847NL-F
05	88TP, 88TP-F	8827TP, 8827TP-F	8875TP, 8875TP-F	—
06	—	8827TP-NL, 8827TP-NL-F	—	—
08	88K, 88K-F 88L, 88L-F	8827K, 8827K-F 8827L, 8827L-F	8875K, 8875K-F 8875L, 8875L-F	8847L-F
09	88L, 88L-F	8827K-NL, 8827K-NL-F 8827L, 8827L-F	8875L, 8875L-F	8847L-F
11-12	—	8827TL, 8827TL-F	—	8847TL-F

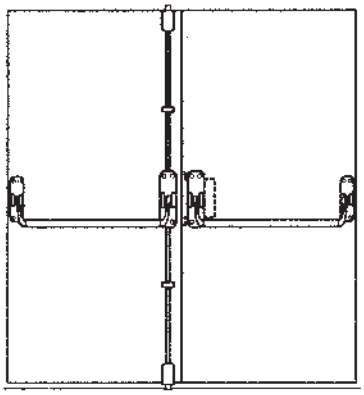
POPULAR DOUBLE DOOR APPLICATIONS



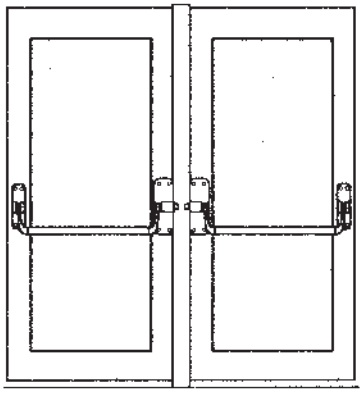
Mortise lock and surface mounted vertical rod device combination — same direction



Two rim devices with mullion — same direction



Two vertical rods — double egress



Two surface mounted vertical rod devices — same direction (do not use with overlapping astragal)

FUNCTION CONVERSION KITS

Device Type	Kit	Converts from –	Converts to –	Trim Included
88	CK-NL	TP, K	NL	880NL-R
	CK-TP	EO, DT, NL, K	TP	880TP-R
	CK-K	EO, DT, NL, TP	K	880K-R
	CK-K×373L	EO, DT, NL, TP	L	373L×889 Plate (NL, DT, TP)
88-F	CK-NL-F	TP-F, K-F	NL-F	880NL-R
	CK-TP-F	EO-F, NL-F, K-F	TP-F	880TP-R
	CK-K-F	EO-F, NL-F, TP-F	K-F	880K-R
	CK-K-F×373L	EO-F, NL-F, TP-F	L-F	373L×889 Plate (NL, DT, TP)
8827, 8827-F	CK27-TP	EO, DT, K (std. or fire)	TP (std. or fire)	880TP-V
	CK27-K	EO, DT, TP (std. or fire)	K (std. or fire)	880K-V
	CK27-K×373L	EO, DT, TP (std. or fire)	L (std. or fire)	373L×889 Plate (NL, DT, TP)

Conversion kits are required for 88 rim and 8827 devices. To convert functions on 8847 and 8875 devices, only new trim is required. The 8875 mortise lock is field convertible for function.

HOW-TO-ORDER INFORMATION

Rim and mortise lock devices, specify:

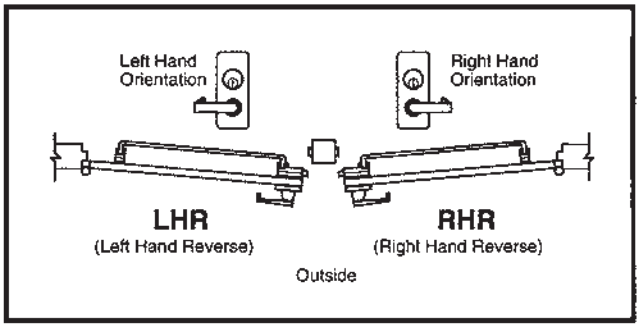
1. Exit device model number with trim selection. Examples: 88EO (Exit only with no outside trim). 88TP (Includes standard 880TP thumbpiece trim). 88TP × 608TP (Includes the optional 608TP thumbpiece trim).
2. Door width if greater than 4′ *(1219mm)*.
3. Door thickness if other than 1¾″ *(44mm)*.
4. Door and frame material if other than hollow metal.
5. Finish, see page 17.
6. Handing required on "L" function, "F" fire devices, and the E-88. Specify LHR or RHR. See diagram below.
7. "SNB" when using sex nuts and bolts.

Vertical rod devices, specify:

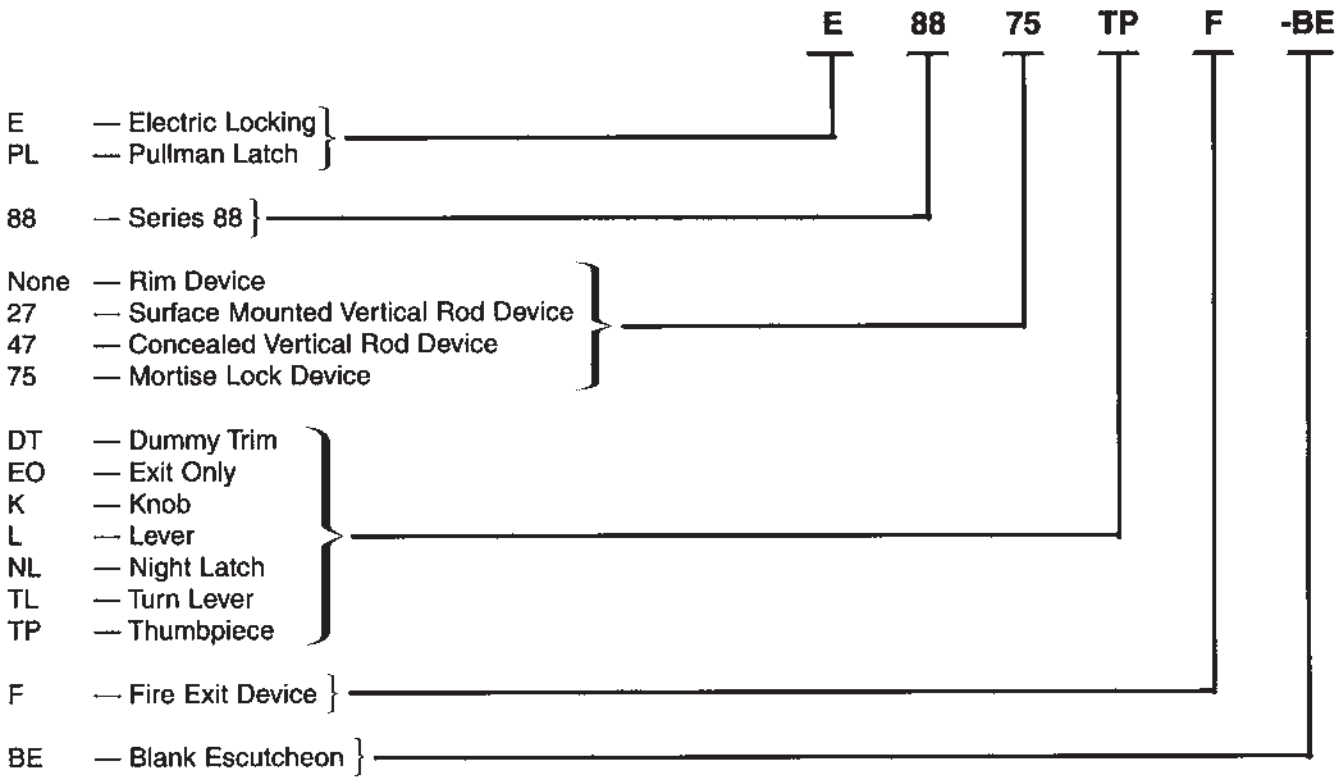
1. Exit device number with trim selection. Examples: 8827EO (Exit only, no outside trim). 8827TP (Includes 880TP thumbpiece trim). 8827TP × 608TP (Includes the optional 608TP thumbpiece trim).
2. Door width of greater than 4′ *(1219mm)*.
3. Door thickness if other than 1¾″ *(44mm)*.
4. Door and frame material if other than hollow metal.
5. Door height if greater than 7′ *(2134mm)*, extension rods must be ordered.
6. Finish, see page 17.
7. Handing, LHR or RHR, required on "L" and "F" fire devices. See diagram below.
8. "SNB" when using sex nuts and bolts.

Pullman latches are optional for 8827 devices. Latchbolts remain extended at all times. Specify "Pullman Latch" when required.

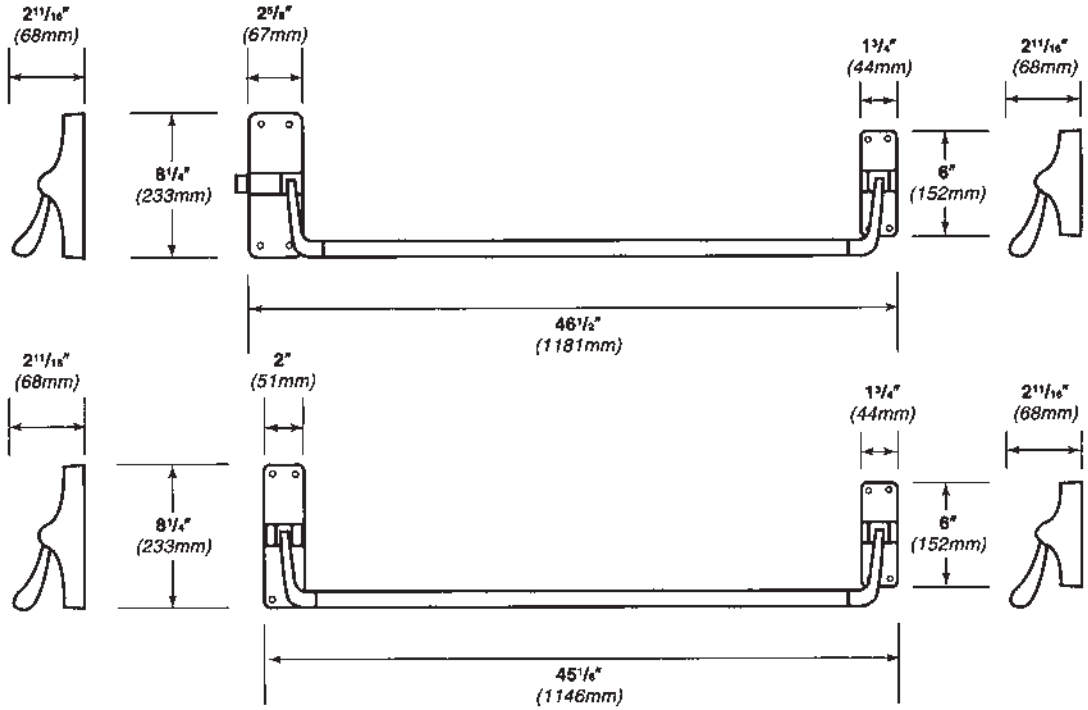
HANDING



NOMENCLATURE



DIMENSIONS



INGERSOLL-RAND
ARCHITECTURAL HARDWARE

Von Duprin Division

Ingersoll-Rand Company
2720 Tobey Drive
P.O. Box 6023
Indianapolis, IN 46206
(317) 897-9944

88/569/20

Printed in USA

VON DUPRIN®

98/99™ Series Exit Devices



Security & Safety
Proven Source. Proven Solutions.™

Finishes*



Color	US Number	BHMA Number
Chromium, Polished	US26	625
Anodized, Aluminum	US28	628
Chromium, Dull	US26D	626
Brass, Polished	US3	605
Brass, Dull	US4	606
Bronze, Dull	US10	612
Anodized Duranodic (Dark Bronze)	313AN	710
Anodized Black	315AN	—

Pushpad Options — Knurled
Embossed "Push"
Braille (Caution-Stairwell), satin stainless steel only
SS – (EMERGENCY EXIT – PUSH TO OPEN AND SOUND ALARM) – Red Silkscreen lettering on US32D

*** NOTE:** Durable powder coated finishes available at specific special request. PLEASE CONTACT FACTORY.

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Introduction

Exit devices are a critical part of the Fire and Life Safety egress system and will provide safe and reliable service when properly applied and maintained. Von Duprin designs and manufactures exit devices in accordance to ISO 9001 Quality Management System and meets or exceeds accepted U.S. domestic and International standards. All 98 and 99 series exit devices are UL listed for Panic Hardware or Fire Hardware, and are certified to ANSI A156.3, 2001, Grade 1. Many models are also certified for Hurricane Resistant Applications. Consult your local IR Security & Safety consultant or the Von Duprin factory for current listings.

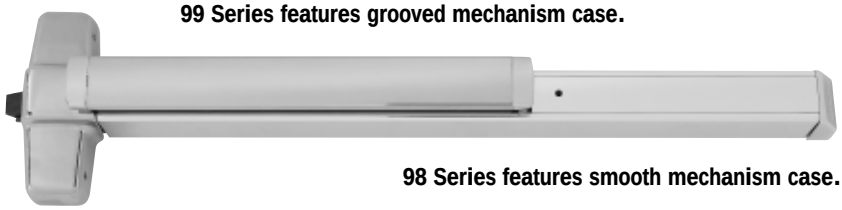
It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

Unusual operating conditions and environments and other external influences can affect the proper application of the products represented. Modifications of these products will also affect UL listings. It is recommended that whenever an unusual application condition exists, or when any modification of a product is considered, that our engineers review the application.

Application engineering services are available to help ensure proper selection or to review any areas where users of Von Duprin products may have questions.



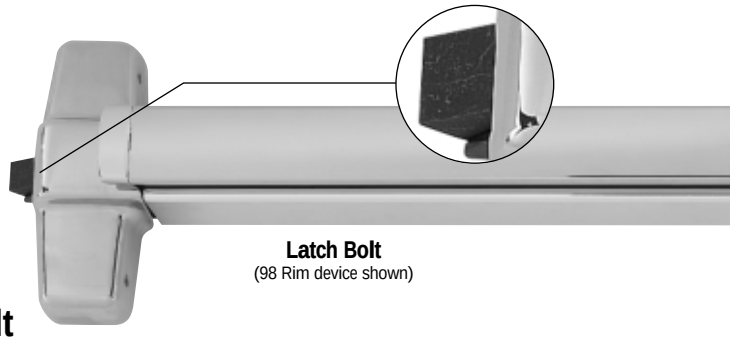
99 Series features grooved mechanism case.



98 Series features smooth mechanism case.

Von Duprin push pad exit devices are available in two external surface styles, designated 98 Series and 99 Series.

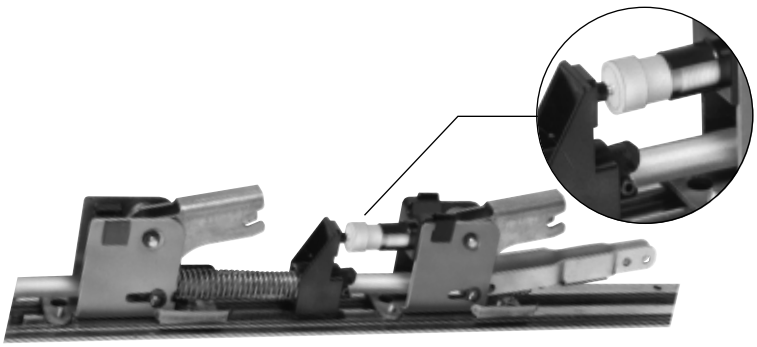
The two styles are mechanically and dimensionally identical and provide a wide selection of appearance options.



Latch Bolt
(98 Rim device shown)

Latch Bolt

Deadlocking latchbolt provides security and improved performance at standard device cost.



The Quiet One®

A fluid dampener decelerates the pushpad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all 98/99™ series exit devices.





299 Strike

98 and 99 rim exit devices for all types of single and double doors with mullion, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 98 device has a smooth mechanism case and the 99 device has a grooved case. The rim device is non-handed except when the following device options are used: SD (Special Dogging), -2 (Double Cylinder) or SS (Signal Switch). See Opposite page for available outside trim and device functions. Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

The 98/99 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 98 device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device		
Device Lengths	3'	2'4" to 3' (711mm to 914 mm) Door Size	
	4'	2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	299 – Dull Black Optional Strikes – see page 39		
Dogging Feature	Hex key dogging standard		
Dogging Options	CD	Cylinder Dogging	see page 48
	SD	Special Center Case Dogging	see page 48
	LD	Less Dogging	see page 48
Electric Options	LX	Latchbolt Monitor Switch	see page 42
	RX	Pushpad Monitor Switch	see page 42
	RX2	Double Pushpad Monitor Switch	see page 42
	E	Electric Locking & Unlocking	see page 44
	EL	Electric Latch Retraction	see page 43
	SS	Signal Switch	see page 43
	CX	Chexit Delayed Exit	see page 45
	ALK	Alarm Exit Kit	see page 42
Miscellaneous Options	PN	Pneumatic Latch Retraction	see page 48
	-2	Double Cylinder	see page 48
	GBK	Glass Bead Kit	see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities		
Latch Bolt	Deadlocking, ¾" (19mm) throw		
Device Centerline from Finished Floor	39 13⁄16" (1011 mm) 39 11⁄16" (1008 mm) with Mullion		
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)		
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)		
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)		

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 
Product Description	98EO 99EO	98DT 99DT	98NL 99NL	98NL-OP 99NL-OP
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	6

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged 
Product Description	98L 99L	98L-NL 99L-NL	98L-BE 99L-BE	98L-DT 99L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-R/V
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34





299F Strike



499F Strike
With 9854/9954
Mullion

98-F and 99-F rim fire exit devices for all types of single doors up to 4´ x 10´ *(1219mm x 3048mm)* or 8´ x 10´ *(2438mm x 3048mm)* double doors with 9954 or 9854 mullion, UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 98-F device has a smooth mechanism case and the 99-F device has a grooved case. The rim device is non-handed except when the following device options are used: -2 (Double Cylinder) or SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 98-F/99-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 98-F device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	299F – Dull Black, 499F with Mullions Optional Strikes – see page 39	
Dogging Feature	No Mechanical Dogging, EL option available	
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch E Electric Locking & Unlocking EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 42 see page 44 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction -2 Double Cylinder GBK Glass Bead Kit	see page 48 see page 48 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified	
Latch Bolt	Deadlocking, ¾" (19mm) throw	
Device Centerline from Finished Floor	39 13⁄16" (1011 mm) 39 11⁄16" (1008 mm) with Mullion	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

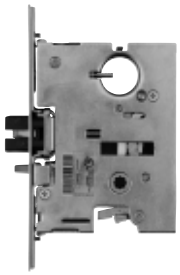
See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommened for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 
Product Description	98EO-F 99EO-F	— —	98NL-F 99NL-F	98NL-OP-F 99NL-OP-F
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6
#825 SNB Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommened for Fire Device) 
Product Description	98L-F 99L-F	98L-NL-F 99L-NL-F	98L-BE-F 99L-BE-F	— —
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-R/V
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2
#825 SNB Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

For optional trims and functions see pages 32-34







575 Strike

9875/9975 mortise lock device for all types of single or double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. Fits stock hollow metal doors with 86 cutout and door stiles as narrow as 4 ¾" *(121mm).* The 9875 device has a smooth mechanism case and the 9975 device has a grooved case. The mortise lock device is non-handed except when the following device options are used: -2 (Double Cylinder) or SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 9875/9975 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9875 device only. See page 52 for component finishes and the inside cover for finish chips.

The 7500 Mortise lock is equipped with a ¾" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L adjust NL drive screw in mortise lock		
Device Lengths	3'	2'4" to 3' (711mm to 914 mm) Door Size	
	4'	2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	575 – Dull Black Optional Strikes – see page 39		
Dogging Feature	Hex key dogging standard		
Dogging Options	CD	Cylinder Dogging	see page 48
	LD	Less Dogging	see page 48
Electric Option	RX	Pushpad Monitor Switch	see page 42
	RX2	Double Pushpad Monitor Switch	see page 42
	E	Electric Locking & Unlocking	see page 44
	EL	Electric Latch Retraction	see page 43
	SS	Signal Switch	see page 43
	CX	Chexit Delayed Exit	see page 45
	ALK	Alarm Exit Kit	see page 42
Miscellaneous Options	PN	Pneumatic Latch Retraction	see page 48
	-2	Double Cylinder	see page 48
	GBK	Glass Bead Kit	see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities		
Device Centerline from Finished Floor	39 ⅝" (1006 mm)		
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)		
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)		
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)		

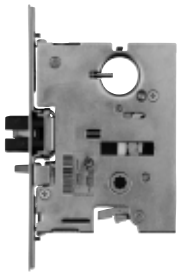
See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Hospital Latch** Key Locks & Unlocks
				
Product Description	9875EO 9975EO	9875DT 9975DT	9875NL 9975NL	9875HL 9975HL
Trim Description	—	990DT	990NL-M	HL6M
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" (*76x360x2mm*)	3" x 14³⁄₁₆" x ³⁄₃₂" (*76x360x2mm*)	2⁹⁄₁₆" x 5½" x 2⅝" (*65x140x67mm*)
Pull Center to Center	—	5½" (*140mm*)	5½" (*140mm*)	—
Projection	—	2" (*51mm*)	2" (*51mm*)	2⅝" (*67mm*)
ANSI Function	01	02	03	—
Cylinder Type	—	—	1¼" Mortise	1¼" Mortise
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutceon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged
				
Product Description	9875L 9975L	9875L-NL 9975L-NL	9875L-BE 9975L-BE	9875L-DT 9975L-DT
Trim Description	996L-M	996L-NL-M	996L-BE-M	996L-DT-M
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)
ANSI Function	08	09	—	02
Cylinder Type	1¼" Mortise	1¼" Mortise	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34







575 Strike

9875-F/9975-F fire exit mortise lock devices for all types of single doors up to 4´ x 10´ *(1219mm x 3048mm)* or 8´ x 10´ *(2438mm x 3048mm)* double doors installations, UL listed for Fire Exit Hardware; **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. Fits door stiles as narrow as 4 ¾" *(121mm).* The 9875-F device has a smooth mechanism case and the 9975-F device has a grooved case. The mortise lock device is non-handed except when the following device options are used: -2 (Double Cylinder) or SS (Signal Switch) devices. See Opposite page for available outside trim and functions.

The 9875-F/9975-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9875-F device only. See page 52 for component finishes and the inside cover for finish chips.

The 7500 Mortise lock is equipped with a ¾" *(19mm)* anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	575 – Dull Black Optional Strikes – see page 39	
Dogging Feature	No Mechanical Dogging, EL option available	
Electric Options	RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch E Electric Locking & Unlocking EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 44 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction -2 Double Cylinder GBK Glass Bead Kit	see page 48 see page 48 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg. specified	
Device Centerline from Finished Floor	39 ⅝" (1006 mm)	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)	

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommened for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Hospital Latch** Key Locks & Unlocks 
Product Description	9875EO-F 9975EO-F	— —	9875NL-F 9975NL-F	9875HL-F 9975HL-F
Trim Description	—	990DT	990NL-R/V	HL6M
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	2⁹⁄₁₆" x 5½" x 2⅝" *(65x140x67mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—
Projection	—	2" *(51mm)*	2" *(51mm)*	2⅝" *(67mm)*
ANSI Function	01	02	03	—
Cylinder Type	—	—	1¼" Mortise	1¼" Mortise
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 
Product Description	9875L-F 9975L-F	9875L-NL-F 9975L-NL-F	9875L-BE-F 9975L-BE-F	— —
Trim Description	996L-M	996L-NL-M	996L-BE-M	996L-DT-M
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	1¼" Mortise	1¼" Mortise	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

For optional trims and functions see pages 32-34



299 Top Strike



248L4
Bottom Strike
for use with
flat threshold



304L
Bottom Strike



Top Latch



Bottom Latch



9827/9927 surface mounted vertical rod device for all types of single or double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. The 9827 device has a smooth mechanism case and the 9927 device has a grooved case. The surface vertical rod device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9827/9927 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9827 device only. See page 52 for component finishes and the inside cover for finish chips.

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors. ***Refer to page 49***

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top - 299 – Dull Black, Bottom – 248L4 & 304L - Unfinished Optional Strikes – see page 39	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging	see page 48 see page 48 see page 48
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 42 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction LBR Less Bottom Rod GBK Glass Bead Kit PL Pullman Latch	see page 48 see page 49 see page 49 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors SNB furnished for top & bottom latches Optional SNB available for device, see next page for quantities	
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝ " (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006 mm)	
Door Undercut	¼" (7mm)	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	½" square tubing, standard rods accommodate 7' (2134mm) door Top rod length is 34 15⁄16" (887mm) Bottom rod length is 31 ¼" (794mm) Extension rods available, 1' (205mm) or 3' (914mm) for doors over 7' One piece top rod available for 8' (2438mm) – 10' (3048mm) door	
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)	

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required	**Thumbturn** Key Locks & Unlocks (Use with DT Trim)	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim)
						
Product Description	9827EO 9927EO	9827DT 9927DT	9827NL 9927NL	9827NL-OP 9927NL-OP	9827TL 9927TL	9827TL-BE 9927TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2⁹⁄₁₆" x 5½" x 2⅝" *(65x140x67mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged
				
Product Description	9827L 9927L	9827L-NL 9927L-NL	9827L-BE 9927L-BE	9827L-DT 9927L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-RV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34



299F
Top Strike



304L
Bottom Strike



499F
Top Strike - LBR





9827-F/9927-F fire exit surface mounted vertical rod device pairs of doors up to 8´ x 10´ *(2438mm x 3048mm)* , UL listed for Fire Exit Hardware.**See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9827-F device has a smooth mechanism case and the 9927-F device has a grooved case. The surface vertical rod device is non-handed except when the following device options are used: SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 9827-F/9927-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9827-F device only. See page 52 for component finishes and the inside cover for finish chips.

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors. Rod and latch guards can be used on hollow metal or tin clad composite fire doors. ***Refer to page 49***

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top – 299F (499F LBR) – Dull Black, Bottom – 304L - Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 **LBR Less Bottom Rod see page 49** GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors SNB furnished for top & bottom latches Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝ " (16mm) throw
Device Centerline from Finished Floor	39 ⅝" (1006 mm)
Door Undercut	¼" (7mm)
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	½" square tubing, standard rods accommodate 7' (2134mm) door Top rod length is 34 ¹⁵⁄₁₆" (887mm) Bottom rod length is 31 ¼" (794mm) Extension rods available, 1' (205mm) or 3' (914mm) for doors over 7' One piece top rod available for 8' (2438mm) – 10' (3048mm) door
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9827EO-F 9927EO-F	— —	9827NL-F 9927NL-F	9827NL-OP-F 9927NL-OP-F	9827TL-F 9927TL-F	9827TL-BE-F 9927TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 
Product Description	9827L-F 9927L-F	9827L-NL-F 9927L-NL-F	9827L-BE-F 9927L-BE-F	— —
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-RV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

For optional trims and functions see pages 32-34



299
Top & Middle Strike



248L4
Bottom Strike for use with threshold



304L
Bottom Strike



Top Latch

Bottom Latch



9857/9957 three-point latching device for all types of single or double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. The 9857 device has a smooth mechanism case and the 9957 device has a grooved case. The three-point latching device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9857/9957 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9857 device only. See page 52 for component finishes and the inside cover for finish chips.

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors. ***Refer to Page 49.***

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device		
Device Lengths	3'	2'4" to 3' (711mm to 914 mm) Door Size	
	4'	2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top & Middle-299–Dull Black, Bottom–248L4 & 304L-Unfinished Optional Strikes – see page 39		
Dogging Feature	Hex key dogging standard		
Dogging Options	CD	Cylinder Dogging	see page 48
	SD	Special Center Case Dogging	see page 48
	LD	Less Dogging	see page 48
Electric Options	LX	Latchbolt Monitor Switch	see page 42
	RX	Pushpad Monitor Switch	see page 42
	RX2	Double Pushpad Monitor Switch	see page 42
	EL	Electric Latch Retraction	see page 43
	SS	Signal Switch	see page 43
	CX	Chexit Delayed Exit	see page 45
	ALK	Alarm Exit Kit	see page 42
Miscellaneous Options	PN	Pneumatic Latch Retraction	see page 48
	LBR	Less Bottom Rod	see page 49
	GBK	Glass Bead Kit	see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors SNB furnished for top & bottom latches Optional SNB available for device, see next page for quantities		
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝" (16mm) throw Deadlocking Rim Bolt, ¾" (19mm) throw		
Device Centerline from Finished Floor	39 13⁄16" (1011 mm)		
Door Undercut	¼" (7mm)		
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)		
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)		
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)		
Vertical Rods	½" square tubing, standard rods accommodate 7' (2134mm) door Top rod length is 34 15⁄16" (887mm) Bottom rod length is 31 ¼" (794mm) Extension rods available, 1' (205mm) or 3' (914mm) for doors over 7' One piece top rod available for 8' (2438mm) – 10' (3048mm) door		
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)		

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged 	**Night Latch** Key Retracts Latchbolt 	**Night Lacth** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9857EO 9957EO	9857DT 9957DT	9857NL 9957NL	9857NL-OP 9957NL-OP	9857TL 9957TL	9857TL-BE 9957TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged 
Product Description	9857L 9957L	9857L-NL 9957L-NL	9857L-BE 9957L-BE	9857L-DT 9957L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-RV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34



299F
Top & Middle
Strike



304L
Bottom Strike



499F
Rim Strike
For Mullion
Applications





9857-F/9957-F fire exit three-point latching device for all types of single doors up to 4´ x 8´ *(1219mm x 2438mm)* or up to 8´ x 8´*(2438mm x 2438mm)* double doors with 9954 or 9854 mullion, UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9857-F device has a smooth mechanism case and the 9957-F device has a grooved case. The three-point latch device is non-handed except when the following device option is used: SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 9857-F/9957-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9827-F device only. See page 52 for component finishes and the inside cover for finish chips.

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors. ***Refer to Page 49.***

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top & Middle-299F–Dull Black, Bottom–304L-Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors SNB furnished for top & bottom latches Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝" (16mm) throw Deadlocking Rim Bolt, ¾" (19mm) throw
Device Centerline from Finished Floor	39 13⁄16" (1011 mm)
Door Undercut	¼" (7mm)
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	½" square tubing, standard rods accommodate 7' (2134mm) door Top rod length is 34 15⁄16" (887mm) Bottom rod length is 31 ¼" (794mm) Extension rods available, 1' (205mm) or 3' (914mm) for doors over 7' One piece top rod available for 8' (2438mm) – 10' (3048mm) door
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9857EO-F 9957EO-F	— —	9857NL-F 9957NL-F	9857NL-OP-F 9957NL-OP-F	9857TL-F 9957TL-F	9857TL-BE-F 9957TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2
#425 SNB Req. w/ 499F	2	2	2	2	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 
Product Description	9857L-F 9957L-F	9857L-NL-F 9957L-NL-F	9857L-BE-F 9957L-BE-F	— —
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-RV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike





9847/9947 concealed vertical rod device for use on single or double metal doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 9847 device has a smooth mechanism case and the 9947 device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and device functions.

The 9847/9947 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9847 device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging	see page 48 see page 48 see page 48
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 42 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction LBR Less Bottom Rod GBK Glass Bead Kit PL Pullman Latch	see page 48 see page 49 see page 49 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities	
Latch Bolt	Deadlocking Top & Bottom Bolt, ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)	
Door Undercut	¼" (7mm) maximum	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)	

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9847EO 9947EO	9847DT 9947DT	9847NL 9947NL	9847NL-OP 9947NL-OP	9847TL 9947TL	9847TL-BE 9947TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-MD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged 
Product Description	9847L 9947L	9847L-NL 9947L-NL	9847L-BE 9947L-BE	9847L-DT 9947L-DT
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike





9847-F/9947-F fire exit concealed vertical rod device for use on pairs of doors up to 8´ x 10´*(2438mm x 3048mm)* , UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9847-F device has a smooth mechanism case and the 9947-F device has a grooved case. The concealed vertical rod device is non-handed except when the following device option is used: SS (Signal Switch) devices. See Opposite page for available outside trim and functions.

The 9847-F/9947-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9847-F device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 **LBR Less Bottom Rod see page 49** GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝" (16mm) throw
Device Centerline from Finished Floor	39 ⅝" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)
Door Undercut	¼" (7mm) maximum
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 ⅛" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9847EO-F 9947EO-F	— —	9847NL-F 9947NL-F	9847NL-OP-F 9947NL-OP-F	9847TL-F 9947TL-F	9847TL-BE-F 9947TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-MD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 
Product Description	9847L-F 9947L-F	9847L-NL-F 9947L-NL-F	9847L-BE-F 9947L-BE-F	— —
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike



9848/9948 Concealed vertical rod device for use on single or double metal doors, UL listed for Panic Exit Hardware. Covers stock hollow metal doors with 86 or 161 cutouts. Devices are ANSI A156.3 – 2001 Grade 1. The 9848 device has a smooth mechanism case and the 9948 device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9848/9948 devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9848 device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device		
Device Lengths	3'	2'4" to 3' (711mm to 914 mm) Door Size	
	4'	2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39		
Dogging Feature	Hex key dogging standard		
Dogging Options	CD	Cylinder Dogging	see page 48
	SD	Special Center Case Dogging	see page 48
	LD	Less Dogging	see page 48
Electric Options	LX	Latchbolt Monitor Switch	see page 42
	RX	Pushpad Monitor Switch	see page 42
	RX2	Double Pushpad Monitor Switch	see page 42
	EL	Electric Latch Retraction	see page 43
	SS	Signal Switch	see page 43
	CX	Chexit Delayed Exit	see page 45
	ALK	Alarm Exit Kit	see page 42
Miscellaneous Options	PN	Pneumatic Latch Retraction	see page 48
	GBK	Glass Bead Kit	see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities		
Latch Bolt	Deadlocking Top Bolt, ¾" (19mm) throw Deadlocking Bottom Bolt, 1 ½" (38mm) throw		
Device Centerline from Finished Floor	39 5/8" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 5/8" (1260mm)		
Door Undercut	¼" (7mm) maximum		
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)		
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)		
Top & Bottom Latch Case	4 ½" x 2 1/8" x 1 ½" (114mm x 54mm x 38mm)		
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)		
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)		

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt Optional Pull Required 	**Thumbturn** Key Locks & Unlocks (Use with DT Trim) 	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim) 
Product Description	9848EO 9948EO	9848DT 9948DT	9848NL 9948NL	9848NL-OP 9948NL-OP	9848TL 9948TL	9848TL-BE 9948TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-MD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks 	**Lever – Night Latch** Key Retracts Latchbolt 	**Lever – Blank Escutcheon** Always operable (No Cylinder) 	**Lever Dummy Trim** Pull when Dogged 
Product Description	9848L 9948L	9848L-NL 9948L-NL	9848L-BE 9948L-BE	9848L-DT 9948L-DT
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike





9848-F/9948-F concealed vertical rod device for use on pairs of doors up to 8´ x 10´*(2438mm x 3048mm),* UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9848-F device has a smooth mechanism case and the 9948-F device has a grooved case. The concealed vertical rod device is non-handed except when the following device option is used: SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9848-F/9948-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9848-F device only. See page 52 for component finishes and the inside cover for finish chips.

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Top Bolt, ¾" (19mm) throw Deadlocking Bottom Bolt, 1 ½" (38mm) throw
Device Centerline from Finished Floor	39 5/8" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 5/8" (1260mm)
Door Undercut	¼" (7mm) maximum
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 1/8" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device)	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required	**Thumbturn** Key Locks & Unlocks (Use with DT Trim)	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim)
Product Description	9848EO-F 9948EO-F	— —	9848NL-F 9948NL-F	9848NL-OP-F 9948NL-OP-F	9848TL-F 9948TL-F	9848TL-BE-F 9948TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-MD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device)
Product Description	9848L-F 9948L-F	9848L-NL-F 9948L-NL-F	9848L-BE-F 9948L-BE-F	— —
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

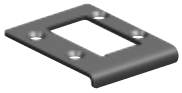
For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike



283
Top Strike
For use with
Wood Frames



Top Latch

Bottom Latch



9847WDC/9947WDC concealed vertical rod device for use on single or double wood doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2001 Grade 1. The 9847WDC device has a smooth mechanism case and the 9947WDC device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (Special Dogging), or SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9847WDC/9947WDC devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9847WDC device only. See page 52 for component finishes and the inside cover for finish chips.

Scalp Plate Device is furnished standard with an 8" *(203mm)* long scalp plate for easy access to rods. *Note: Do not use on pair of doors with 9975.*

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device	
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size	
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39	
Dogging Feature	Hex key dogging standard	
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging	see page 48 see page 48 see page 48
Electric Options	LX Latchbolt Monitor Switch RX Pushpad Monitor Switch RX2 Double Pushpad Monitor Switch EL Electric Latch Retraction SS Signal Switch CX Chexit Delayed Exit ALK Alarm Exit Kit	see page 42 see page 42 see page 42 see page 43 see page 43 see page 45 see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction GBK Glass Bead Kit PL Pullman Latch	see page 48 see Page 49 see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities	
Latch Bolt	Deadlocking Top & Bottom Bolt, ⅝" (16mm) throw	
Device Centerline from Finished Floor	39 ⅝" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)	
Door Undercut	¼" (7mm) maximum	
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)	
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)	
Top & Bottom Latch Case	4 ½" x 2 1/8" x 1 ½" (114mm x 54mm x 38mm)	
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)	
Projection	Pushbar Neutral – 3 ¹³⁄₁₆" (97 mm) Pushbar Depressed – 3 ¹⁄₁₆" (78 mm)	

See page 53 for How to Order specification

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9847/9947 Wood Door Concealed Vertical Rod Device
Standard Trim

	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required	**Thumbturn** Key Locks & Unlocks (Use with DT Trim)	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim)
						
Product Description	9847WDC-EO 9947WDC-EO	9847WDC-DT 9947WDC-DT	9847WDC-NL 9947WDC-NL	9847WDC-NL-OP 9947WDC-NL-OP	9847WDC-TL 9947WDC-TL	9847WDC-TL-BE 9947WDC-TL-BE
Trim Description	—	990DT	990NL-R/V	110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
Optional #425 Sex Bolt Quantity for Device	6	2	2	6	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged
				
Product Description	9847WDC-L 9947WDC-L	9847WDC-L-NL 9947WDC-L-NL	9847WDC-L-BE 9947WDC-L-BE	9847WDC-L-DT 9947WDC-L-DT
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

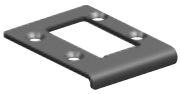
For optional trims and functions see pages 32-34



338
Top Strike



385A
Bottom Strike



283
Top Strike
For use with
Wood Frames



Top Latch

Bottom Latch



9847WDC-F/9947WDC-F fire exit concealed vertical rod device for use on pairs of doors up to 8' x 9' 3" *(2438mm x 2819mm)* double wood doors, UL listed for Fire Exit Hardware. **See page 41 for detailed information on UL listed fire exit hardware label and door opening size information.** Devices are ANSI A156.3 – 2001 Grade 1. The 9847WDC-F device has a smooth mechanism case and the 9947WDC-F device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SS (Signal Switch). See Opposite page for available outside trim and functions.

The 9847WDC-F/9947WDC-F devices are available in the following finishes: US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9847WDC-F device only. See page 52 for component finishes and the inside cover for finish chips.

Scalp Plate Device is furnished standard with an 8" *(203mm)* long scalp plate for easy access to rods. *Note: Do not use on pair of doors with 9975.*

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	Top - 338 – Unfinished, Bottom – 385A - Unfinished Optional Strikes – see page 39
Dogging Feature	No Mechanical Dogging, EL option available
Electric Options	LX Latchbolt Monitor Switch see page 42 RX Pushpad Monitor Switch see page 42 RX2 Double Pushpad Monitor Switch see page 42 EL Electric Latch Retraction see page 43 SS Signal Switch see page 43 CX Chexit Delayed Exit see page 45 ALK Alarm Exit Kit see page 42
Miscellaneous Options	PN Pneumatic Latch Retraction see page 48 **LBR Less Bottom Rod see page 49** GBK Glass Bead Kit see page 49
Fasteners & Sex Bolts (SNB)	Includes 1 ¾" (19mm) – 2 ¼" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities Optional SLM Blocking Pkg for wood doors with SLM blocking SNB required for wood doors, unless SLM Blocking Pkg specified
Latch Bolt	Deadlocking Anti-friction Top & Bottom Bolt, ⅝" (16mm) throw
Device Centerline from Finished Floor	39 ⅝" (1006 mm) Standard, Adjustable from 35 ⅝" (905mm) to 49 ⅝" (1260mm)
Door Undercut	¼" (7mm) maximum
Center Case Dimensions	8" x 2 ¾" x 2 ⅜" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 ¼" x 2 ¼" (57mm x 57mm)
Top & Bottom Latch Case	4 ½" x 2 1/8" x 1 ½" (114mm x 54mm x 38mm)
Vertical Rods	Round 2 piece adjustable rods Top rod adjustable from 6'8" (2027mm) to 8'4"(2533mm) Bottom rod adjustable 35 ⅝" (905 mm) to 49 ⅝" (1260 mm) Extension rod kits available for doors over 8'4" (2533mm)
Projection	Pushbar Neutral – 3 13⁄16" (97 mm) Pushbar Depressed – 3 1⁄16" (78 mm)

See page 53 for How to Order specification

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	Exit only	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device)	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required	**Thumbturn** Key Locks & Unlocks (Use with DT Trim)	**Thumbturn** Blank Escutcheon Always Operable (No Cylinder) (Use with DT Trim)
Product Description	9847WDC-EO-F 9947WDC-EO-F	— —	9847WDC-NL-F 9947WDC-NL-F	9847WDC-NL-OP-F 9947WDC-NL-OP-F	9847WDC-TL-F 9947WDC-TL-F	9847WDC-TL-BE-F 9947WDC-TL-BE-F
Trim Description	—	990DT	990NL-R/V	110NL-WD	374T x 990DT	374T-BE x 990DT
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—	—	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—	3¼" *(83mm)*	3¼" *(83mm)*
ANSI Function	01	02	03	03	11	—
Cylinder Type	—	—	Rim	Rim	1¼" Mortise	—
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL			
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	6	2	2	6	2	2

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged (Not recommended for Fire Device)
Product Description	9847WDC-L-F 9947WDC-L-F	9847WDC-L-NL-F 9947WDC-L-NL-F	9847WDC-L-BE-F 9947WDC-L-BE-F	— —
Trim Description	996L-CV	996L-NL-CV	996L-BE-CV	996L-DT-CV
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*	2⁷⁄₈" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2

For optional trims and functions see pages 32-34

Knob and Thumbpiece Trim

	Knob Key Locks & Unlocks	**Knob – Night Latch** Key Retracts Latchbolt	**Knob – Blank Escutcheon** Alwaya Operable (No Cylinder)	**Knob – Dummy Trim** Pull when Dogged	**Thumbpiece** Key Locks & Unlocks	**Thumbpiece Blank Escutcheon** Always Operable (No Cylinder)
						
Trim Description	991K	991K-NL	991K-BE	991K-DT	990TP	990TP-BE
Escutcheon Plate Size	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)
Pull Center to Center	—	—	—	—	5½" (*140mm*)	5½" (*140mm*)
Projection	3¼" (*83mm*)	3¼" (*83mm*)	3¼" (*83mm*)	3¼" (*83mm*)	2" (*51mm*)	2" (*51mm*)
ANSI Function	08	09	—	02	05	05
Cylinder Type						
Rim or Vertical Rod Device	Rim	Rim	—	—	Rim	—
Mortise Lock Device	1¼" Mortise	1¼" Mortise			1¼" Mortise	—
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2	2	2
#825 SNB Req. WD w/o SLM Pkg. F Rim device ONLY	2	2	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2	2	2

Lever Design Options



#01



#02



#03



#05



#06
Standard



#07



#12
Handed



#16



#17



#18

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996L Trim

The new 996L Breakaway™ trim has become the standard lever trim offering on the 98L/99L series devices. The 996L trim blends two successful Von Duprin designs; the look of the traditional 992L lever trim and the security and durability of the Von Duprin Breakaway™ design. The Breakaway™ design is especially effective in areas where vandalism to door hardware is a problem. The design intent is to discourage costly repairs from becoming necessary. The Breakaway™ feature is not available on the NL (night-latch) or DT (dummy trim) versions.

Optional Lever Trims – 992

	Lever Key Locks and Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always Operable (No Cylinder)	**Lever – Dummy Trim** Pull when Dogged (Not recommended for Fire Device)
				
Trim Description	992L	992L-NL	992L-BE	992L-DT
Escutcheon Plate Size	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)	2¾" x 10¾" x 27/32" (*70x273x21mm*)
Pull Center to Center	—	—	—	—
Projection	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)
ANSI Function	08	09	—	02
Cylinder Type				
Rim or Vertical Rod Device	Rim	Rim	—	—
Mortise Lock Device	1¼" Mortise	1¼" Mortise	—	—

The 992L trim series provides the traditional Von Duprin escutcheon design. Special versions available for doors of over 2 ¼" (*57mm*) thicknesses. Additionally available in an RX and E-locking/unlocking version.

Optional Lever Trims – 994

	Lever Key Locks and Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always Operable (No Cylinder)	**Lever – Dummy Trim** Pull when Dogged (Not recommended for Fire Device)
				
Trim Description	994L	994L-NL	994L-BE	994L-DT
Escutcheon Plate Size	2¾" x 9¼" x 27/32" (*70x235x21mm*)	2¾" x 9¼" x 27/32" (*70x235x21mm*)	2¾" x 9¼" x 27/32" (*70x235x21mm*)	2¾" x 9¼" x 27/32" (*70x235x21mm*)
Pull Center to Center	—	—	—	—
Projection	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)	2⅞" (*73mm*)
ANSI Function	08	09	—	02
Cylinder Type				
Rim or Vertical Rod Device	Rim	Rim	—	—
Mortise Lock Device	1¼" Mortise	1¼" Mortise	—	—

Optional Lever Trims – 696/697

	Dummy Trim Pull when Dogged (Not recommended for Fire Device) 	**Dummy Trim** Pull when Dogged (Not recommended for Fire Device) 	**Night Latch** Key Retracts Latchbolt 	**Night Latch** Key Retracts Latchbolt 
Trim Description	696DT	697DT	696NL	697NL
Escutcheon Plate Size	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)
Pull Center to Center	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)
Projection	2⅛" (*52mm*)	3" (*76mm*)	2⅛" (*52mm*)	3" (*76mm*)
ANSI Function	02	02	03	03
Cylinder Type				
Rim or Vertical Rod Device	—	—	Rim	Rim
Mortise Lock Device	—	—	1¼" Mortise	1¼" Mortise
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2
#825 SNB Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

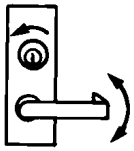
Optional Lever Trims – 696/697

	Thumbpiece Key Locks & Unlocks 	**Thumbpiece** Key Locks & Unlocks 	**Thumbpiece - Blank Escutcheon** Always Operable (No Cylinder) 	**Thumbpiece - Blank Escutcheon** Always Operable (No Cylinder) 
Trim Description	696TP	697TP	696TP-BE	697TP-BE
Escutcheon Plate Size	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)	1⅝" x 13½" x 3⁄16" (*41x343x5mm*)
Pull Center to Center	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)	5½" (*140mm*)
Projection	2⅛" (*52mm*)	3" (*76mm*)	2⅛" (*52mm*)	3" (*76mm*)
ANSI Function	05	05	05	05
Cylinder Type				
Rim or Vertical Rod Device	Rim	Rim	—	—
Mortise Lock Device	1¼" Mortise	1¼" Mortise	—	—
#425 SNB optional-HMD Req. WD w/o SLM Pkg.	2	2	2	2
#825 SNB Req. WD w/o SLM Pkg.	2	2	2	2
#425 SNB Req. w/ 499F	2	2	2	2

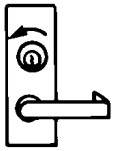
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Operation Options

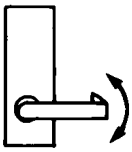
Lever and Knob Operations



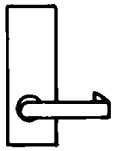
Standard operation, key locks and unlocks lever or knob. e.g., 996L (Classroom)



Night latch, key retracts latch bolt. Lever or knob is rigid. Use NL suffix, e.g. 996LNL. (Storeroom)



Blank escutcheon, lever or knob always active. Use BE suffix, e.g., 996L-BE. (Passage)



Dummy trim, lever or knob rigid for pull operation. Use DT suffix, e.g., 996L-DT.

374T/376T Series Thumbturn Control
(Shown with 990DT Trim)



Standard operation, key locks and unlocks thumbturn. Optional operation, key unlocks thumbturn, re-locks when key is removed. This operation is created by changing the cylinder plate included with control. Use 1¼" mortise cylinder with a straight cam. Schlage cam reference B502-191.

HL6 Exit Device Trim Option



Von Duprin and Glynn-Johnson have collaborated on an exit device trim that answers the problem of accessibility and performance.Using the Von Duprin 98/9975 mortise lock exit device along with the Glynn-Johnson HL6 Push/Pull latch, Ingersoll-Rand has created an exit device with mortise lock durability that utilizes a fully ADA compliant Pull paddle trim. The 98/9975HL device is available in all standard architectural finished and can be found in the Von Duprin device price list for easy ordering.

Vandal Resistant Trim

VR910 & VR914 Series

Features:

- Stainless Steel construction, 11 gage (0.120" thick)
- Thru-bolts and rugged mounting screws for maximum fastening strength.
- 10-24 screws supplied with VR910 & VR914 models.
- Built-in lock protector prevents vandalism to mortise latchbolt (available on certain models).
- Extra-tough stainless steel cylinder collar prevents pipe wrench or similar tool from damaging cylinder. Tapered design prevents side impacts from transferring directly to cylinder. Collar spins freely.
- Furnished with mounting screws for door thicknesses of 1¾" to 2¼"
- Finish: US32D
- VR910 grip coated in black plastisol for softer touch and resilience to temperature extremes. Grip designed for comfortable operation.
- VR914 grip in all stainless steel.
- Meets ANSI/BHMA 156.13, Trim Security Test and California State Accessibility Standards Title 24.
- 1½" (38mm) clearence from grip to door
- 1⅞" (48mm) total projection from door
- Consult IVES catalog for specification/ordering information.



Model	For Use With	Size
VR910DT & VR914DT	98/99 Rim or Vert. Rod Device	5¼" (133mm) w x 11" (279mm) h
VR910NL & VR914NL	98/99 Rim or Vert. Rod Device	5¼" (133mm) w x 11" (279mm) h
VR910M-DT & VR914M-DT	9875/9975 Mortise Device	7¼" (184mm) w x 11" (279mm) h
VR910M-NL & VR914M-NL	9875/9975 Mortise Device	7¼" (184mm) w x 11" (279mm) h

The Von Duprin Computer Managed CM993 Exit Trim is a stand-alone, battery-powered exit trim for use on doors where an exit device is required for egress. The CM993 is designed to be used with Von Duprin 98/99™ Rim and Vertical Rod exit devices for unmatched access control and ease of use. It can be programmed with LockLink™ or LockLink™ Express access control management software. The same software can also manage the Schlage CM Locks and the Locknetics Universal Controllers, which provide intelligent access control for electrified or battery-powered products such as magnets, strikes and cabinet locks.

Multiple users, Multiple access points. Multiple credential. One way to manage them.

Provides Unmatched Access Control

- Manages up to 1,000 users and provides audit trail for last 1,000 events
- SmarTime feature allows for time functionality:
  - 16 time zones
  - 16 time schedules
  - 32 holidays
  - first person in
  - time expiration
  - time activation
- Full-swipe mag stripe card reader for maximum readability and reliability
- Optional audit trail of mechanical key override
- Optional auto card updating feature disables a lost or stolen card when the reissued card is presented at the lock
- LED status indicators

Conversion to New Card System Not Necessary

- Our exit device trims most likely work with your existing mag card and HID prox cards



Von Duprin Programmable PRO993 Exit Trim For Manual Programming

- Manually program up to 120 keycodes right at the trim
- Similar mechanical features as CM993
- Complements Schlage PRO and Locknetics PRO series products

Easy To Retrofit…Easy To Operate And Architecturally Designed For New Construction

- Directly retrofits existing trim
- Fits doors from 1⅜" to 2¼" thick
- Comes with Schlage Everest 1¼" cylinder, but can adapt to other existing key systems
- LockLink software that programs the locks is Windows®-based and menu-driven. It can be operated with minimal training.





For use with Von Duprin 98/99™ Series Exit Devices including Rim, Surface Vertical, Concealed Vertical and Three-Point latching models. (Not for use with mortise devices).

NOT FOR USE WITH CHEXIT DEVICES

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CM993 – MGK – 06 – LH – KD – 695 – EXT

- **Select Model**
- **Select Access Credential Option**
- **Select Lever**
- **Select Handing**
- **Select Key Cylinder Option**
- **Select Finish**
- **Select Trim Options**

1. Select Model



CM993 Computer managed exit trim

PRO993 Manually programmed exit trim

2. Select Access Credential Option (CMs only)



KPI
Keypad iButton Reader



IBO
iButton Reader



MGK
Mag Card Reader Keypad iButton Reader



MGI
Mag Card Reader iButton Reader



PXK
HID prox Reader Keypad iButton Reader



PXI
HID prox Reader iButton Reader

3. Select Lever



#03



#06 Standard



#17

4. Select Handing

RH Right Hand
LH Left Hand
Note: Handing is field-reversible

5. Select Key Cylinder Option

KD Schlage Everest Cylinder
LC Less Cylinder
Note: Master keyed cylinders order separately

6. Select Finish:

605 Bright Brass
612 Satin Bronze
613 Oil-Rubbed Bronze
625 Bright Chrome
626 Satin Chrome (Standard)
695 Duranodic Dark Bronze

7. Select Trim Options

ATK Audit trail of mechanical key override, includes ATR (Requires computer programming).

T3 ABA Track 3 Mag Card Reader (ABA Track 2 is standard for MGI and MGK Series only).

EXT is now standard. Specify if for interior use.
Mag Card Reader for exterior use (for MGI and MGK Series only).

Select Credentials

IBA	iButton (adhesive backed)
IBF	iButton on Fob
MAG1	Magnetic Stripe Card – Blank
MAG2	Magnetic Stripe Card – Pre-encoded
PRX1	Prox Card – Standard .070" thick
PRX2	Prox Card – Adhesive backed for photo application, .070" thick
PRX3	Prox Card – ISO – credit card size and thickness, .031" thick
PRX4	Prox Card – Dual Technologies, magnetic stripe and Prox, .031" thick
PF1	Prox Fob

Door Thickness State door thickness. Available from 1⅜" to 2¾" in ⅛" increments

DEVICE TYPE	STANDARD SINGLE DOOR			STANDARD DOUBLE DOOR			OPTIONAL SINGLE DOOR			OPTIONAL DOUBLE DOOR		
	STRIKE	TRIM/STILE		STRIKE W/MULLION*	TRIM/STILE		STRIKE	TRIM/STILE		STRIKE W/MULLION*	TRIM/STILE	
		990/992 994/996	696/697		990/992 994/996	696/697		990/992 994/996	696/697		990/992 994/996	696/697
98/99	299	4-1/2" (114mm)	4-3/8" (111mm)	299 x 4954	4-7/8" (124mm)	4-3/4" (121mm)	1439 or 1410	3-13/16" (97mm)	3-13/16" (97mm)	299 x 5654	4-7/16" (113mm)	4-1/4" (108mm)
										1408 x 5754	3-13/16" (97mm)	3-13/16" (97mm)
							1606	4-1/16" (103mm)	3-15/16" (100mm)	1606 x 1654	4-7/16" (113mm)	4-1/4" (108mm)
98-F/99-F	299F	4-1/2" (114mm)	4-3/8" (111mm)	499F x 9954	4-7/8" (124mm)	4-3/4" (121mm)	—	—	—	499F x 9854 KR9954	—	—
9875 9975	575	4-3/4" (121mm)	4-3/4" (121mm)	575-2	—	—	—	—	—	576A-576B	4-3/4" (121mm)	4-3/4" (121mm)
9875-F 9975-F	575	4-3/4" (121mm)	4-3/4" (121mm)	575-2	—	—	—	—	—	576A-576B	4-3/4" (121mm)	4-3/4" (121mm)
9857 9957	299 (Top) 299 (Middle) 304L/284-L (Bottom)	4-1/2" (114mm)	4-3/8" (111mm)	299 x 4954	4-7/8" (124mm)	4-3/4" (121mm)	1439 or 1410	3-13/16" (97mm)	3-13/16" (97mm)	299 x 4954	4-7/16" (113mm)	4-1/4" (108mm)
										1408 x 5754	3-13/16" (97mm)	3-13/16" (97mm)
							1606	4-1/16" (103mm)	3-15/16" (100mm)	1606 x 1654	4-7/16" (113mm)	4-1/4" (108mm)
9857-F 9957-F	299F (Top) 299F (Middle) 304L (Bottom)	4-1/2" (114mm)	4-3/8" (111mm)	299F 499F x 9954 304L	4-7/8" (124mm)	4-3/4" (121mm)	—	—	—	—	—	—

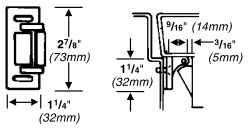
	STRIKE	APPLICATION	TRIM/STILE		OPTIONAL STRIKE	APPLICATION	TRIM/STILE	
			990/992 994/996	696/697			990/992 994/996	696/697
9827 9927 LATCH RETRACTION	299 (Top) 304L/248L-4 (Bottom)	Single Door	3-11/16" (94mm)	3-5/8" (92mm)	260U (Top) 385A (Bottom)	Single Door	3-11/16" (94mm)	3-5/8" (92mm)
PL9827/PL9927 PULLMAN LATCH	299 (Top) 304L/248L-4 (Bottom)	Two Vertical Rod Devices	3-11/16" (94mm)	3-5/8" (92mm)		Two Vertical Rod Devices	3-11/16" (94mm)	3-5/8" (92mm)
9827-F 9927-F	299 (Top) 304L (Bottom)				260U (Stainless) 385A (Bottom)			
9847 9947 9848 9948	338 (Top) 385A (Bottom)	Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)	304L (Bottom)	Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)
9847-F 9947-F 9848-F 9948-F	338 (Top) 385A (Bottom)	Two Vertical Rods	4-1/4" (108mm)	4-1/8" (105mm)	304L (Bottom)	Two Vertical Rods	4-1/4" (108mm)	4-1/8" (105mm)
		Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)		Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)
9847WDC 9947WDC	338 (Top) 385A (Bottom)	Single Door	4-1/4" (108mm)	4-1/4" (108mm)	304L	Single Door	4-1/4" (108mm)	4-1/4" (108mm)
		Two Vertical Rod Devices	4-1/4" (108mm)	4-1/4" (108mm)		Two Vertical Rod Devices	4-1/4" (108mm)	4-1/4" (108mm)
		Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)		Vertical Rod with Mortise Lock Device	4-3/4" (121mm)	4-3/4" (121mm)
9847WDC-F 9947WDC-F	338 (Top) 385A (Bottom)	Two Vertical Rod Devices	4-1/4" (108mm)	4-1/4" (108mm)	304L	Two Vertical Rod Devices	4-1/4" (108mm)	4-1/4" (108mm)

**Mullion information–refer to the General and Auxiliary catalog.*

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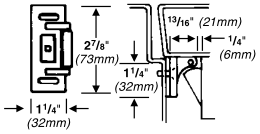
Strikes for rim devices

264



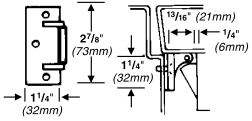
Projection 9/16" (14mm)

299



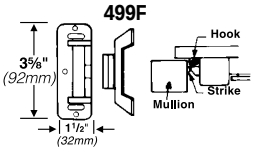
Projection 13/16" (21mm)

299F



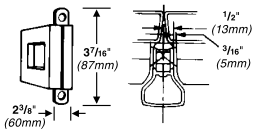
Projection 13/16" (21mm)

499F



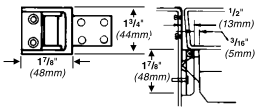
Projection 15/16" (24mm)

1408



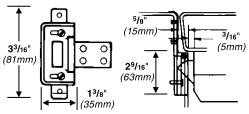
One per pair of doors

1439–Blade Stop



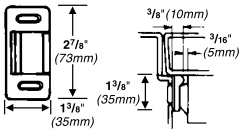
Projection 1/2" (13mm)

1410–Integral Stop



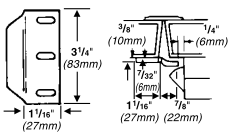
Projection 1/2" (13mm)

1606



Projection 3/8" (10mm)
Panic Devices Only

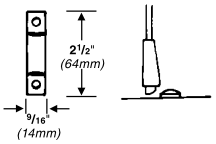
1609



- Requires Coordinator
- For Fire Rated Application, consult factory

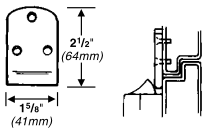
Strikes for vertical rod devices

248L-4



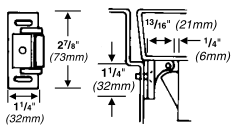
Projection 3/8" (10mm)

260U–Flush Transom Only



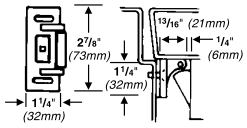
Projection 3/8" (10mm)
For Fire Rated Application, consult factory

299



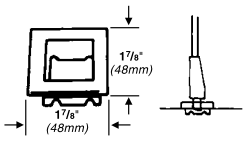
Projection 13/16" (21mm)

299F



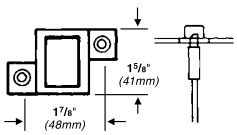
Projection 13/16" (21mm)

304L



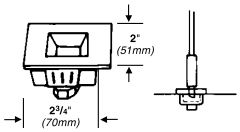
Mortise 13/16" (21mm)

338



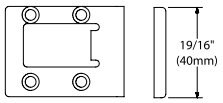
Mortise 5/8" (16mm)

385A



Mortise 2-1/2" (64mm)

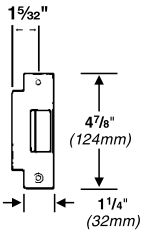
283



For use with WDC devices
when used with wood frames

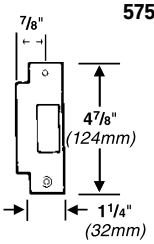
Strikes for mortise lock devices

575



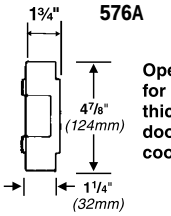
For use on 1 3/4" *(44mm)* or 2 1/4" *(57mm)* Single door and 2 1/4" *(57mm)* double door with coordinator.

575-2



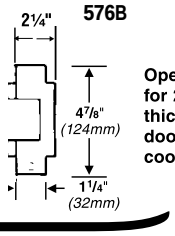
For use on 1 3/4" *(44mm)* thick double door with coordinator and astragal

576A



Open back strike for 1 3/4" *(44mm)* thick double doors without coordinator.

576B



Open back strike for 2 1/4" *(57mm)* thick double doors without coordinator.

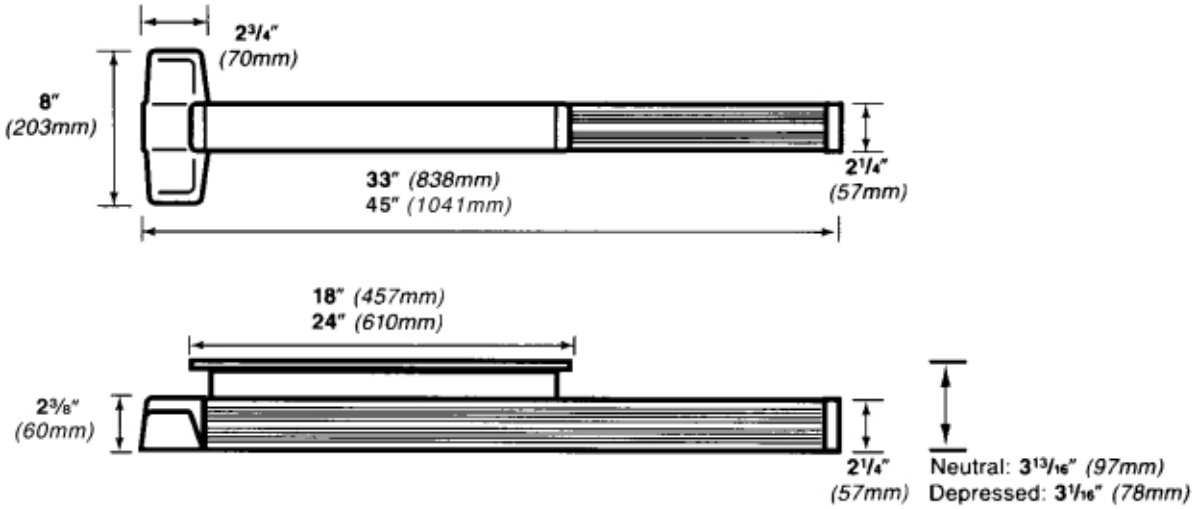
- Not for use with astragals
- Not for use on wood doors
- Acceptable for 90 minute pair of hollow metal doors

ANSI Grade, Type & Function

Function	Grade 1, Type 1	Grade 1, Type 2	Grade 1, Type 3	Grade 1, Type 7	Grade 1, Type 8	Grade 1, Type 9
01	98EO, 98EO-F 99EO, 99EO-F	9827EO, 9827EO-F 9927EO, 9927EO-F	9875EO, 9875EO-F 9975EO, 9975EO-F	9847WDC-EO & EO-F 9947WDC-EO & EO-F	9847EO, 9848EO-F 9947EO, 9947EO-F	9857EO, 9857EO-F 9957EO, 9957EO-F
02	98DT 99DT	9827DT 9927DT	9875DT 9975DT	9847WDC-DT* 9947WDC-DT	9848DT 9948DT	9857DT 9957DT
03	98NL, 98NL-F 99NL,99NL-F	9827NL, 9827NL-F 9927NL, 9927NL-F	9875NL, 9875NL-F 9975NL, 9975NL-F	9847WDC-NL & NL-F 9947WDC-NL & NL-F	9847NL, 9847NL-F 9947NL, 9947NL-F	9857NL, 9857NL-F 9957NL, 9957NL-F
05	98TP, 98TP-F 99TP, 99TP-F	9827TP, 9827TP-F 9927TP, 9927TP-F	9875TP, 9875TP-F 9975TP, 9975TP-F	9847WDC-TP & TP-F 9947WDC-TP & TP-F	9847TP, 9847TP-F 9947TP, 9947TP-F	9857TP, 9857TP-F 9957TP, 9957TP-F
07	98TP-2, 98TP-F-2 99TP-2, 99TP-F-2	— —	— —	— —	— —	— —
08*	98K, 98K-F 99K, 99K-F	9827K, 9827K-F 9927K, 9927K-F	9875K, 9875K-F 9975K, 9975K-F	9847WDC-K & WDC-K-F 9947WDC-K & WDC-K-F	9847K, 9847K-F 9947K, 9947K-F	9857K, 9857K-F 9957K, 9957K-F
08	98L, 98L-F 99L, 99L-F	9827L, 9827L-F 9927L, 9927L-F	9875L, 9875L-F 9975L, 9975L-F	9847WDC-L & WDC-L-F 9947WDC-L & WDC-L-F	9847L, 9847L-F 9947L, 9947L-F	9857L, 9857L-F 9957L, 9957L-F
09*	98K-NL, 98K-NL-F 99K-NL, 99K-NL-F	9827K-NL, 9827K-NL-F 9927K-NL, 9927K-NL-F	9875K-NL, 9875K-NL-F 9975K-NL, 9975K-NL-F	9847WDC-K-NL & WDC-K-NL-F 9947WDC-K-NL & WDC-K-NL-F	9847K-NL, 9847K-NL-F 9947K-NL, 9947K-NL-F	9857K-NL, 9857K-NL-F 9957K-NL, 9957K-NL-F
09	98L-NL, 98L-NL-F 99L-NL, 99L-NL-F	9827L-NL, 9827L-NL-F 9927L-NL, 9927L-NL-F	9875L-NL, 9875L-NL-F 9975L-NL, 9975L-NL-F	9847WDC-L-NL & WDC-L-NL-F 9947WDC-L-NL & WDC-L-NL-F	9847L-NL, 9847L-NL-F 9927L-NL, 9947L-NL-F	9857L-NL, 9857L-NL-F 9957L-NL, 9957L-NL-F
10*	98K-2, 98K-F-2 99K-2, 99K-F-2	— —	— —	— —	— —	— —
10	98K-2, 98K-F-2 99K-2, 99K-F-2	— —	— —	— —	— —	— —
11-12	— —	9827TL, 9827TL-F 9927TL, 9927TL-F	— —	9847WDC-TL & TL-F 9947WDC-TL & TL-F	9847TL, 9847TL-F 9947TL, 9947TL-F	— —

***Device is Grade 1, 991K trim is Grade 2.**

Dimensions



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UL Listed Fire Exit Hardware Label and Opening Size

Exit Device	Door Material	Single Door	Double Door						
			With 9954 Mullion	With 9854 Mullion	With KR9954 Mullion	With KR9854 Mullion	VR/VR Same Direction	VR/Mortise Same Direction	VR/VR Double Egress
98-F 99-F	Metal	3 Hour 4’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 8’	3 Hour 8’ x 8’	—	—	—
9875-F 9975-F	Metal	3 Hour 4’ x 10’	—	—	—	—	—	3 Hour 8’ x 10’	—
9827-F 9927-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 10’
9827LBR-F 9927LBR-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	—	3 Hour 8’ x 10’
9857-F 9957-F	Metal	3 Hour 4’ x 8’	3 Hour 8’ x 8’	3 Hour 8’ x 8’	3 Hour 8’ x 8’	3 Hour 8’ x 8’	—	—	—
9847-F 9947-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 10’
9847LBR-F 9947LBR-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	—	3 Hour 8’ x 10’
9848-F 9948-F	Metal	—	—	—	—	—	90 Minute* 8’ x 10’	3 Hour 8’ x 10’	3 Hour 8’ x 10’

*** Currently, no door manufacturers offer a listing over 90 minutes with doors swinging same direction.**
Consult wood door manufacturers for current UL listings.

Alarm Kit – ALK



The ALK battery alarm kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key. Thus allowing the exit device to be set in an armed or disarmed mode. The horn is rated at 85 decibel.

The key switch uses a standard 1¼" (32mm) mortise cylinder with a straight cam (Schlage Cam reference B502-191). The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal.

Also can be powered using the PS9 Power Supply. See PS9 for additional information.

Alarm kits are available with a choice of two switch kits, RX or LX. RX monitors the touchpad and is furnished standard. LX optional latch bolt monitoring is recommended for use with surface vertical rod exit devices. Specify ALK-LX.

Note: For latch bolt monitoring on a 98/9975 with ALK, specify a SS7500 lock. LX switch not available for 98/9975 devices.

The ALK is available in two styles, 33A/99ALK, grooved cover and 35A/98ALK, smooth cover.

The ALK includes "EMERGENCY EXIT ONLY. ALARM WILL SOUND" decal for application on door, or the SS push bar trim can be used instead of the door decal,specify SS push bar trim.

The ALK is available with 2 optional circuit boards. External Inhibit (EI) allows for the use of external switch to be used to arm, disarm and reset the alarm. Auto Reset (AR) rearms the alarm after a preset time. AR is available in three factory set times – 1½, 3 or 6 minutes.

To Order, Specify:

1. External Inhibit – ALK-EI
2. Auto Reset – ALK-AR3

When the ALK is used, standard dogging is removed. If cylinder dogging is required there are two choices. Special center case dogging is available or for 3' or 4' doors the ALK can be moved to the hinge side of the device and standard cylinder dogging can be added.

To Order, Specify:

1. Standard, 98NL ALK
2. Cylinder Dogging, CD98NL ALK
3. Special Center Case Dogging, SD98NL ALK

Minimum Door Opening Sizes on ALK Applications

Device	3' (914mm) Length	4' (1219mm) Length
98/98-F/99/99-F	2'9" (838mm)	3'3" (991mm)
9875/9875-F/9975/9975-F	2'9" (838mm)	3'3" (991mm)
9827/9827-F/9927/9927-F	2'8" (813mm)	3'2" (966mm)
9857/9857-F/9957/9957-F	2'8" (813mm)	3'2" (966mm)
9847/9847-F/9947/9947-F	2'8" (813mm)	3'2" (966mm)
9848/9848-F/9948/9948-F	2'8" (813mm)	3'2" (966mm)

Request to Exit — RX



The RX (Request to Exit) feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the pushpad.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The RX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resisitive maximum).

The RX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

- Standard – Use prefix RX, example RX99EO
- Low Current – Use prefix RX-LC, example RX-LC98EO

Double Request to Exit — RX2

The RX2 feature uses 2 RX switches. Also available with the Low Current (LC) switch.

To Order, Specify:

- Standard – Use prefix RX2, example RX299EO
- Low Current – Use prefix RX2-LC, example RX2-LC98EO

Latch Bolt Monitoring — LX



The LX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the latch bolt.

The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

The LX switch option should not be used to control a load, but as a signalling switch (0.5 amps. resistive maximum).

The LX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To Order, Specify:

- Standard – Use prefix LX, example LX99EO
- Low Current – Use prefix LX-LC, example LX-LC98EO

Electrical Rating for all Switches:

- Standard – up to 0.5 Amp @ 24VDC Maximum
- Low Current (LC) - up to .05 Amp @ 24VDC Maximum

Note: All Switches can be either factory or field installed

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Electric Latch Retraction — EL



The EL feature allows for the remote unlatching of exit devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt, either for momentary unlatching, or for extended periods of time. The EL feature is an alternative to manual dogging.

If manual hex-key dogging is required, specify HD-EL. If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-EL. SD-EL is not available on the 9875 or 9975 devices.

EL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an **automatic fire alarm system.**

UL approved for Class II circuit applications.

The EL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS873 power supply.

The PS873 with the 871-2 option card is minimum option card required. Other option cards available for other functions, see PS873 power supply for additional information.

Solenoid Specifications:

Continuous Duty — 24 VDC

Current Inrush — 16 Amps

Current Holding — 0.3 Amps

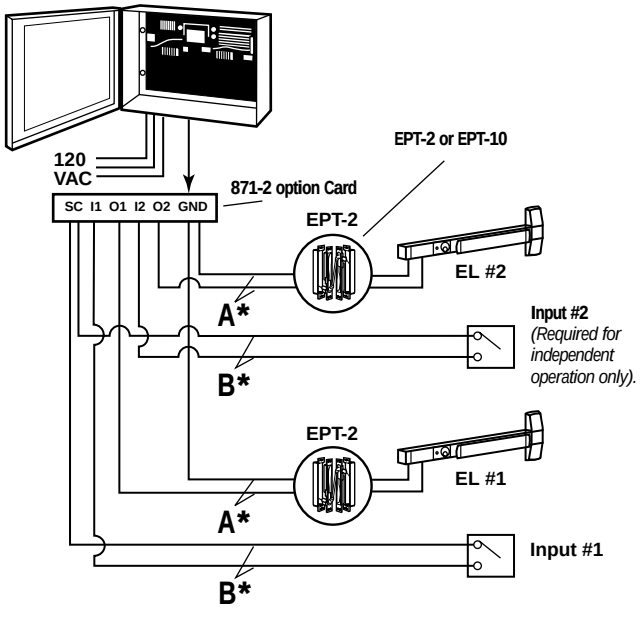
To order, specify:

Standard — Use prefix EL, example EL99L.
Hex Key dogging — Use prefix HD-EL, example HD-EL99L
Special Center Case Dogging — Use prefix SD-EL, example SD-EL99L

Popular EL Application

Power Supply PS873-2

Electric Power Transfer EPT-2 or EPT-10



Signal Switch — SS



Monitors pushpad and latch bolt

The SS feature is used to signal the unauthorized use of an opening. This device is equipped with two internal SPDT switches. One switch monitors both the pushpad and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1 ¼" *(32mm)* mortise with straight cam for alarm "bypass." (Schlage cam reference B502-191). The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Pushpad reads:
"EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM."
Pushpad is only available in US32D finish with red silk-screened lettering.

The SS mortise lock device is furnished with both the signal switch device and the SS7500 mortise lock. The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signalling functions to monitor latch bolt operation and the trim locking function. The SS7500 mortise lock is supplied standard with the SS mortise lock device.

To Order, Specify:

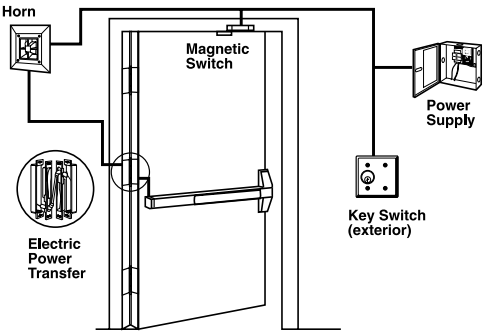
1. Prefix SS, example SS99L.
2. Handing Required, LHR or RHR.

Electrical Ratings:

Up to 2.0 AMPS @ 24VDC

Popular SS Application

Unauthorized use of this opening will activate the local horn.
The key switch permits inhibiting this system for authorized entry.



EL Device Wire Selection Size

A*

Run Length	EL Device w/EPT or Door Loop
0-100 ft.	14 gauge
100-200 ft.	12 gauge

A*

Run Length	EL Device w/Electric Hinge/Pivot
0-75 ft.	14 gauge
75-150 ft.	12 gauge

B*

Wire Selection	Switch Wire Size
1200 ft. Max.	18 gauge

Electric Mortise Lock Device — E



The electric mortise lock device has all the versatility and advantages of the standard mortise lock device, plus the advantage of being electrically controlled by a remote switching device, an access control system or an automatic fire alarm system. The device features the E7500 mortise lock. The E7500 controls the locking of the outside trim. When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking but require unlocking during a fire emergency. The outside trim cylinder retracts the latch bolt for mechanical override, night latch function. Only available with TP, K or L functions.

The E7500 lock contains a SPDT signal to monitor the outside trim condition (locked or unlocked) and a second SPDT signal switch to monitor the latch bolt.

Standard Features:
- Field reversible handing
- 24 VDC continuous duty solenoid

Optional Features:
- Fail safe (locked when energized, unlocked when de-energized or during power failure). Specify with suffix "FS."
- Fail secure (unlocked when energized, locked when de-energized or during power failure). Specify with suffix "FSE"
- 24 VAC (with SO option)
- 12 VDC
- 12 VAC (with SO option)

Note: Some Fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

Electrical Specifications:
- Solenoid — .60 AMPS @ 12VDC
  .30 AMPS @ 24VDC
- Each switch — Up to 2.0 AMPS @ 24VDC Maximum

The E option does not include the power transfer from door to frame, the power supply or the control operator. (Refer to EPT-10 and PS861 or PS873 power supply)

To Order, Specify:

1. Use prefix "E," example E9975.
2. FS or FSE
3. Voltage and current.

Electric Rim Device — E

The electric rim device provides remote locking and unlocking capabilities. A control station operator can flip a switch to lock or unlock the outside trim condition. The 24 VDC solenoid assembly contains a SPDT signal switch to monitor the outside trim condition (locked or unlocked), and a second SPDT signal switch to monitor the latch bolt.

The device is standard as fail safe (FS). When power is off, the trim is unlocked. The trim may then be relocked electrically by applying power. The device is field convertible for fail secure (FSE) applications.

The outside trim cylinder retracts the latch bolt for mechanical override, night latch function. Only available in TP, K or L function.

This feature does not include the power transfer from doors to frame, the power supply or control operator. Refer to the EPT-10 and PS861 or PS873 power supply.

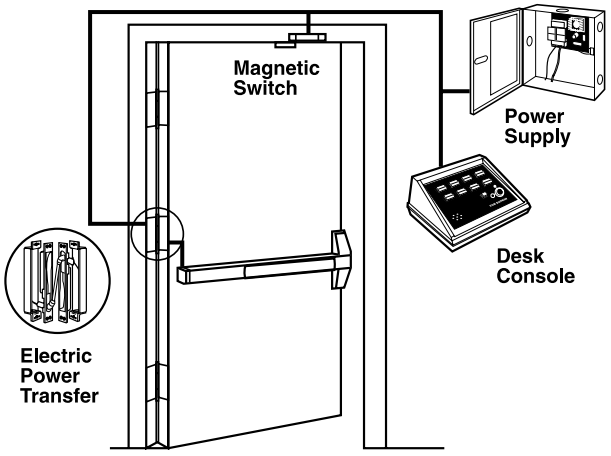
NOTE: LX switch not required for E99 rim device when latch bolt monitoring is required. E99 Rim has standard latch bolt monitoring feature.

Specifications:
- Solenoid – 0.25 AMPS @ 24VDC
- Each switch – Up to 2.0 AMPS @ 24VDC Maximum

UL listed FVSR SA163 panic hardware
And GXHX R4504(N) fire exit hardware

To Order, Specify:

1. Use prefix "E," example E99TP.
2. Handing Required, LHR or RHR.



Electric Mortise Lock Device or Electric Rim Device

Adaptable for openings where continuous latching is required while the trim may be electrically locked or unlocked from a remote location—stairwells, exterior doors, etc.

Minimum System Requirements:
- PS861
- EPT-10

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The Chexit®



Designed for use on delayed exit applications, the Chexit system is ideal for controlled areas.

All controls, auxiliary locking, local alarm, and remote signalling are self-contained in the Chexit, providing safe, secure, easy to install and simple to operate door control and exit hardware.

Chexit controlled exit device for use on Panic or Fire Exit hardware applications.

This concept in delayed exit systems combines life safety with the needs of security and meets all requirements of NFPA 101 for "Special Locking Arrangement."

The Chexit device includes decal for application on door.
"PUSH UNTIL ALARM SOUNDS.
DOOR CAN BE OPENED IN 15 SECONDS"

Solenoid Specifications:
- Continuous Duty – 24VDC
- Current Inrush – 16 amperes
- Current Holding – .3 amperes

Requires PS873 Power Supply

Request to Exit Switch:
Built into the device to detect when someone attempts to exit. Pushing the push pad when the device is armed will cause this switch to start an irreversible alarm cycle.

Nuisance Alarm:
When a Chexit is located in a public area, it can be desireable to limit false alarms. If the Nuisance Delay options are set to off, the device will go into alarm as soon as the push pad is touched (when armed). Turning the Nuisance Delay on will require the push pad to be pressed for 2 seconds before the Chexit goes into alarm. If the Nuisance Audible and Nuisance Delay are both on, the alarm will sound as soon as the push pad is pressed, but the alarm sequence will stop unless the push pad is held for 2 seconds or more.

Remote Alarm:
A set of relay contact are provided to give external alarm indication. These contact close when the device is in an irreversible alarm condition. These contact can be used to drive a horn, lamp, or other indicative device.

Key Switch:
The Key Switch provides the means to arm, disarm or reset the Chexit. The key can be removed in either the Arm or Disarm position.

Indicator Lamp:
The status of the Chexit can be determined by the indicator lamp. When the lamp is off, this indicates the device is disarmed and is functioning as a normal exit device (no delay). A continuously on lamp indicates the device has just been armed and as soon as the selectable rearm timer expires, the device will arm. A slow flashing lamp indicates the device is armed. A fast flashing indicator lamp indicates the device is in alarm.

Internal Horn:
Whenever the device is in alarm or the push pad is pressed the internal horn will sound. The volume level of this horn exceeds 85 db at 6 feet.

Door Position Input:
An external door position switch can be connected to the Chexit.

External Inhibit Input:
This optional input is provided to allow remote override of the Chexit in the armed condition. It also allows remoe reset of the Chexit in an alarmed condition.

Fire Alarm Input:
This input disables the Chexit immediately upon a fire alarm.

Internal Auxiliary Lock:
The Auxiliary Lock is engaged when the Chexit is armed. The locking mechanism is specifically designed to hold securely even when the exit device is struck with forceful blows.

User Defineable Rearm Time:
The Rearm time is the amount of time after the device is activated before it arms. It is designed to give someone time to pass through the door before rearming oocurs. Timing can be changed by the user for any time between 2 and 28 seconds in two second increments. There is also an infinite rearm setting that requires the use of an external door position switch. In this setting the door remains in the rearm mode until the door is closed. This can be useful on jet way doors in an airport.

***Factory Defineable Delay Time*:**
Most jurisdictions allow 15 seconds of delay before allowing egress. In those cases where 15 seconds is not appropriate, Von Duprin can set the Chexit for any delay time between 0 and 60 seconds on 2 second increments. For delays greater than 15 seconds a letter from the local authority is required.

Electrical Accessories

Power Supplies



SERIES PS873

The series PS873 power supply is designed to operate a wide variety of electrical products. EL panics require 871-2 PCB minimum. The regulated output power is field selectable for either 24VDC @ 2 ampere or 12VDC @ 4 ampere. Standard input 120VAC @ 1.0 ampere or 240VAC @ 0.5 ampere available. Enclosure is 10" high x 12½" wide x 5" deep *(254mm x 323mm x 127mm)*, gray with a hinged cover and constructed of heavy 19 gauge steel. Five ½" x ¾" *(13mm x 19mm)* knockout holes are provided for conduit connection. Terminal block will accept up to 12 gauge wire.

The PS873 can be ordered with three standard options: **Key lock** secures the cover to eliminate tampering and provides safety; **Battery backup** provides two hours backup power at full load during a A.C. power failure. Batteries will automatically recharge when failed power is restored. **Fire Alarm** provides input for a normally closed fire alarm contact. When the fire alarm contact is "open", power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

Eight standard configurations:

PS873	Standard
PS873K	With keylock
PS873B	With battery
PS873BK	With battery and keylock
PS873FA	With fire alarm
PS873K-FA	With keylock and fire alarm
PS873B-FA	With battery and fire alarm
PS873BK-FA	With battery, keylock and fire alarm

The series PS873 is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

Factory or Field Installed Circuit Cards:

871-2, Two Zone controller provides two inputs and two outputs. Will operate one or two EL exit devices. Use suffix "-2" for factory installed, example PS873-2.

873-AL, Alarm function monitors 1 or 2 zones and provides alarm output, upon detecting a door in the open position. Delayed alarming is selectable from 5 to 75 seconds. Use suffix "-AL" for factory installed, example PS873-AL

873-AO, Auto Operator function coordinates the release of one or two locks and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods; by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by a "RX" type input switch. Use suffix "-AO" for factory installed, example PS873-AO

873-SI, Security/Safety Interlock provide interlock function for two zones. When combined with a second 873-SI card, the inter-locking of groups are available in two, three or four zones. Safety interlock is available, consult factory for additional information. Use suffix "-SI" for factory installed, example PS873-SI

873-4TD, Four Zone controller with **Time Delay** provides four inputs and four outputs with time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. Will operate up to 4 EL devices. Use suffix "-4TD" for factory installed, example PS873-4TD

873-AC, Access Control provides supervision of one zone using an electromagnetic lock. Input signals required are: access control contact, motion detector contact, and motion detector override contact. FA, Fire Alarm option is required. Use suffix "-AC" for factory installed, example PS873-AC

Factory Installed Only Circuit Card

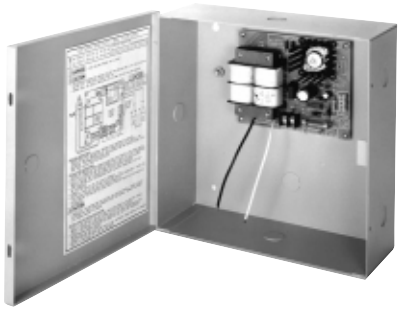
873-DE, Delayed Egress provides 15 second delay release from pushbar activation to electro-magnetic lock release. Ideal function for use with Locknetics electromagnetic locks, will operate two zones simultaneously. To operate two separate zones, a second 873-DE card is required. UL listed component, when used as part of a Von Duprin delayed egress system. Use suffix "- DE", example, PS873-DE.

Note: "DE" cards CANNOT be combined with any other optional cards.

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Electrical Accessories

Power Supplies
PS861 Power Supply



Standard
UL Listed
Class 2, Power Supply
UL1012
UL1310

The series PS861 power supply is designed for electric locking or monitoring on single or double door applications. The output power is field selectable for either 24 VDC @ 1 ampere or 12 VDC @ 2 ampere. Standard input 120 VAC @ 0.6 ampere and 240 VAC @ 3.0 ampere available. The terminal block will accept up to 14 gauge stranded wire.

The gray enclosure is 10" x 10" x 4" *(254mm x 254mm x 102mm)*, has a hinged cover, and is constructed of heavy 19 gauge steel. Six ½" *(13mm)* knockout holes are provided for conduit connection.

Options include keylock cover or Battery Backup. The pair of batteries, which are sealed lead acid battery packs, will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored.

Four Models:

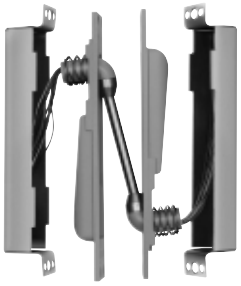
PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861FA	Fire Alarm
PS861BK	Battery backup and keylock cover
PS861BKFA	Battery backup and keylock cover with FA board (24VDC only)

PS9 Power Supply

The PS9 is an AC power supply that provides 9 VDC power to operate the ALK alarm kit. The unit will power one or two alarm kits. Included is a 9-volt sealed battery that provides backup power in case of an AC power failure.



Electrical Power Transfer –– EPT
Pneumatic Transfer – PNT



Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suite for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires. The EPT-2 and EPT-10 are U/L listed as "miscellaneous door accessory".

Pneumatic Controls

PNT-1 is available for pneumatic latch retraction exit devices. Appearance and dimensions are identical to EPT models.

UL Listed for use on firedoors

Door applications:
up to 5" butt hinges – 180˚ swing,
5 ½" butt hinges – 130˚ swing,
6" butt hinges – 110˚ swing,
¾" butt offset pivots 180˚ swing.

Not for use with swing clear hinges or center-hung pivots.

Finishes

SP28 (sprayed aluminum)

SP313 (sprayed duranodic).

Dimensions

Housing	9" x 1 ¼" x 1 ⅝" *(229mm x 32mm x 38mm)*
EPT-2	Two 18 gauge wires, Up to 2 AMPS @ 24VDC, with a 16 AMPS Maximum Surge
EPT-10	Ten 24 gauge wires, Up to 1 AMPS @ 24VDC, with a 16 AMPS Maximum Surge
PNT-1	5⁄32" Tubing

To order, specify:

1. EPT-2 ,EPT-10 or PNT-1.
2. Finish, SP28 or SP313.

Pneumatic Controlled Exit Devices–PN



The PN feature provides remote latch bolt retraction in hazardous areas where electrically operated devices would not be permitted. The pneumatic solenoid will retract the latch bolt for momentary or prolonged periods. PN exit devices are particularly suited for use with automatic door operators. The PN feature is available on both Panic and Fire Exit Hardware devices.

The PN feature includes a special actuating linkage that gives building owners the option of mechanically or pneumatically dogging the exit device. If manual hex-key dogging is required, specify HD-PN (Dogging the device, whether mechanically or pneumatically, makes the device function as a push/pull unit and reduces the wear on its moving parts.) If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-PN. SD-PN is not available on the 9875 or 9975 devices.

When activated pneumatically, the latch bolt(s) of the exit device retract in ½ to 1 ½ seconds. This pneumatic operation uses air pressure ranging from 50 to 100 pounds per square inch.

This product will function only when it is part of a pneumatic system (air compressor, air lines, pneumatic system, etc.). Contact LCN for correct control boxes

To Order, Specify:

- Standard — Use prefix PN, example PN99NL
- Hex Key Dogging — Use prefix HD-PN, example HD-PN99NL
- Special Center Case Dogging — Use prefix SD-PN, example SD-PN99NL

Double Cylinder – 2



Double cylinder features an inside key cylinder which locks or unlocks the outside trim and an outside key cylinder which retracts the latch bolt only(Night Latch Function) . Available on rim or mortise lock device.

Rim requires two rim type cylinders. Mortise device requires 1 rim cylinder and 1 mortise cylinder 1¼" with a straight cam. (Schlage cam reference B502-191.)

Available functions are thumbpiece, knob or lever.

To Order, Specify:

1. Suffix-2 with device/trim number, example 99TP-2.
2. Handing required, LHR or RHR.

Less Dogging – LD

Less Dogging is available in all 98/99™ Panic Exit devices to remove the dogging option.

To Order, Specify:

- Use prefix LD, example LD99L

Special Center Case Dogging – SD



Special cylinder dogging in the center case is available for Chexit, EL, ALK panic devices to allow for mechanical push/pull operation. With this option, the latchbolt is held retracted and pushbar is still operable. Specify handing — RHR or LHR.

SD requires 1 ¼" (32mm) mortise cylinder with a straight cam. (Schlage cam reference B502-191.)

Note: Available on Rim and Vertical Rod Panic Exit Devices only.

To Order, Specify:

- Use prefix SD, example SD99L

Cylinder Dogging — CD



Cylinder dogging is available on all 98/99™ Panic Exit devices to replace the standard hex key dogging. Unit requires a standard 1¼" *(32mm)* mortise cylinder with a straight cam (Schlage Cam B502-191 reference).

To Order, Specify:

- Use prefix, CD, example CD99L

Cylinder Dogging Kit — CDK

For field conversion, a cylinder dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99CDK or **35A/98CDK**, specify finish.

Hex Key Dogging Kit — HDK

For field conversion, a hex key dogging conversion kit is available. Cannot be added to fire exit hardware.

Order: 33A/99HDK or **35A/98HDK**, specify finish.

Braille, Embossed and Knurled Touchpads



Braille touchpad is embossed with the message “CAUTION STAIRWELL” in braille and raised letters provides assistance to person with impaired vision. Letters are ½" (13mm) high and braille is #2, raised height is 3⁄32" (2mm). Other messages are available on special order, limited to 20 characters per line.

Embossed touchpad is embossed with the word “PUSH”
Knurled touchpad is to provide warning to person with impaired vision.

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Vertical Rod and Latch Guard — RG-27



Rod Guard

Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. (If bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.)

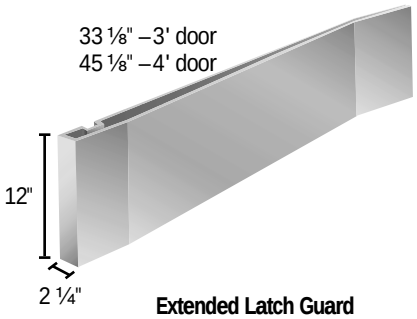
In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easily with the bumpers of a wheelchair. The latch guard portion is 10" high. The standard latch guard features a 45° ramp. The extended latch guard offers a continuous ramp in 3' or 4' widths.

All stainless steel construction in US32D finish. Latch guards can cover latches as large as 1¼"W x 10"H x 1⅞" projection.



Latch Guard

Models
RGO — Rod guard only (Projection 1 3⁄16").
RG-27 — Rod and latch guard.
RG-27-3 — 3' *(914mm)* Rod Guard and Extended Latch Guard.
RG-27-4 — 4' *(1219mm)* Rod Guard and Extended Latch Guard.



Extended Latch Guard

LGO — Latch guard only.
LGO-3 — 3' *(914mm)* Extended latch guard only.
LGO-4 — 4' *(1219mm)* Extended latch guard only.

Note: Not for use on wood fire doors

To Order, Specify:

1. Model number.
2. Handing (except on RGO).
3. Door material if other than Hollow Metal.
4. Optional sex bolt mounting available.

Less Bottom Rod – LBR

LBR option is available, using a spring loaded auxiliary latch bolt installed in the lower door edge. When exposed to heat the auxiliary latch bolt releases, keeping the doors in alignment and closed during a fire. UL listed 3 hours on hollow metal doors double egress, 90 minute swinging same direction, and 20 minutes wood doors (consult wood door manufacturer). Fits door stiles as narrow as 3⅝".

LBR devices must be ordered in pairs or must be used in conjunction with an approved automatic or constant latching flush bolt.

Pullman Latch – PL

When PL is specified the standard latches are replaced with pullman style latches. Pullman latches are always extended and are most commonly used in conjunction with electric strikes and LBR-less bottom rod application. Not available with Fire rated devices. Not recommended where security is of the utmost since latches do not deadlock.

Glass Bead Kit – GBK

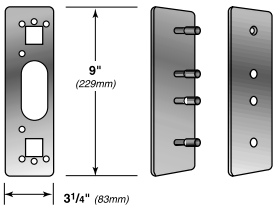
Glass bead conversion kits are available for all 98/99™ Series devices for use on doors with raised glass beads. Each kit consists of ¼" *(6mm)* shim sets. GBK for Surface Vertical Rod ships with ⅛" shims for rod guides.

To order, specify:

1. 99GBK
2. Device type (Rim, Mortise, Surface Vertical Rod, Concealed Vertical Rod)
3. Wood Door, when used with Concealed Vertical Rod

997 Cover Plate Kit

For 99 rim device, kit contains inside and outside plates for hinge stile cutouts, an inside plate for the lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations. Specify finish.



Dummy Pushpad



The 330 dummy pushpad is designed as a companion unit for all 99 devices. The 350 dummy pushpad is a companion unit for all 98 devices. The pushpad is rigid or nonfunctioning. A push/pull operation can be accomplished by using 990DT, 996DT trim or any Ives Pull.

The 330/350 can be equipped with a functional pushpad and will accommodate an RX switch. Specify RX-330. May also be equipped with the RX2, double RX switch. Specify RX2-330

To order, specify:

1. 330 or 350.
2. Size 3' or 4' *(914mm or 1219mm)*
3. Finish, US3, US4, US10, US26, US26D, US28, 313AN, 315AN, 350 Only US32D.

Cylinders

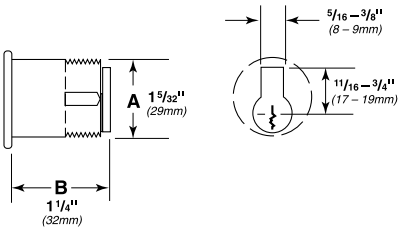
Cylinders are not furnished with device or trim and must be specified when ordering. Refer to trim pages for cylinder type.



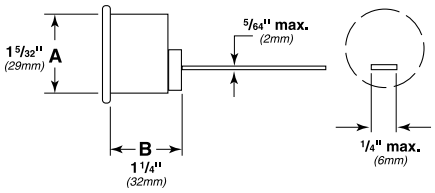
Mortise — 3215 (Schlage B502-191 cam)



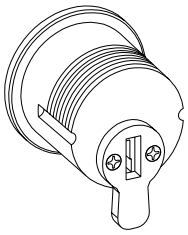
Rim 3216



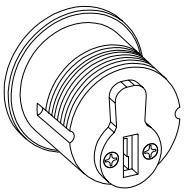
Dogged (Inverted) Cam



Undogged Cam
(Standard Operations)

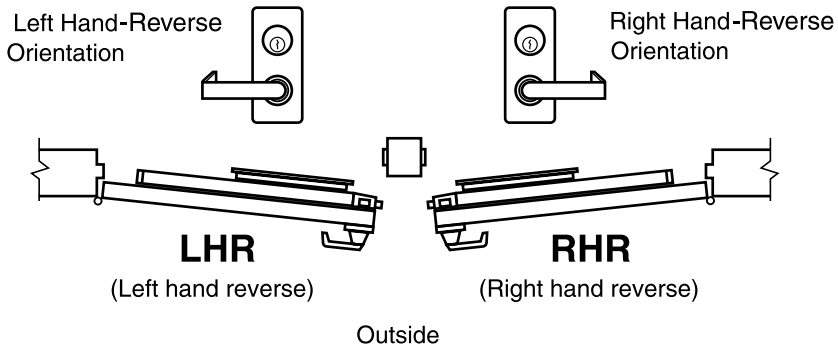


For Cylinder Dogging



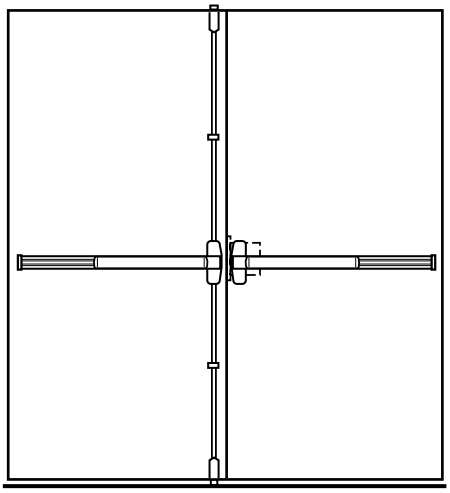
For Standard Trim Functions

Door Handing

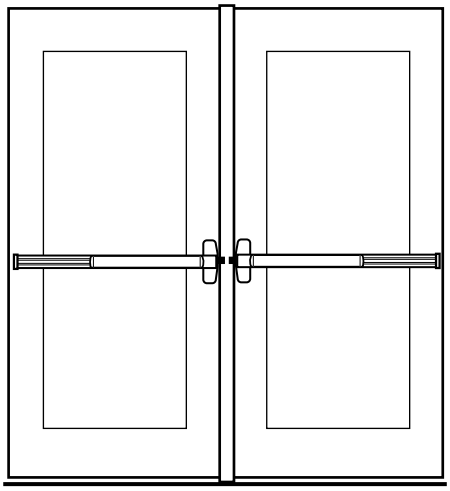


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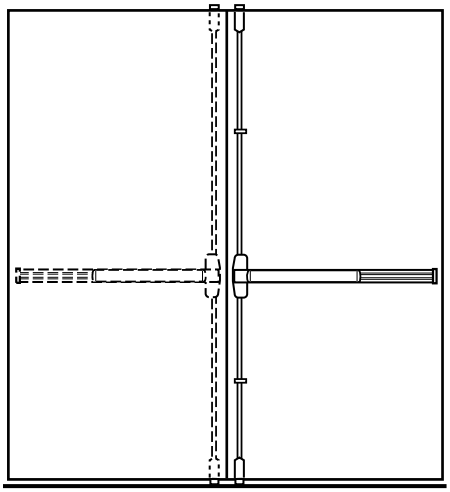
Popular Double Door Applications



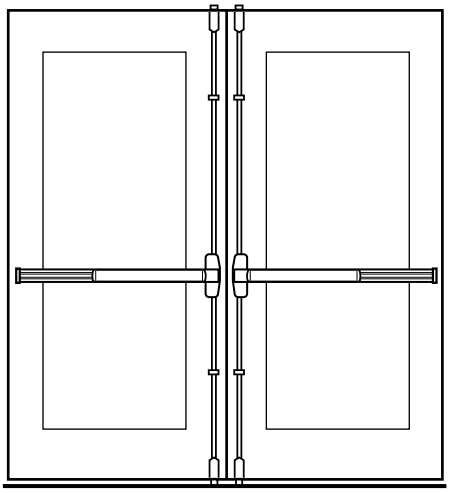
Mortise lock and surface mounted or Concealed Vertical rod device combination—same direction



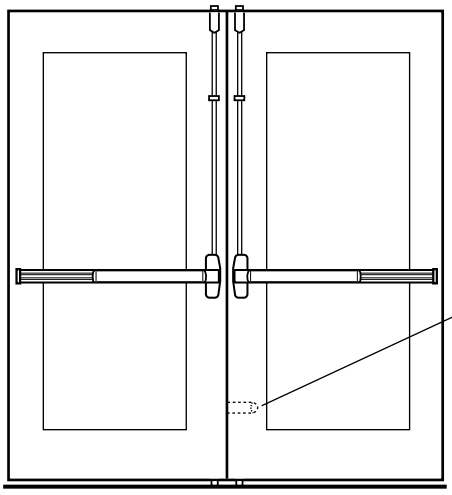
Two rim devices with mullion—same direction



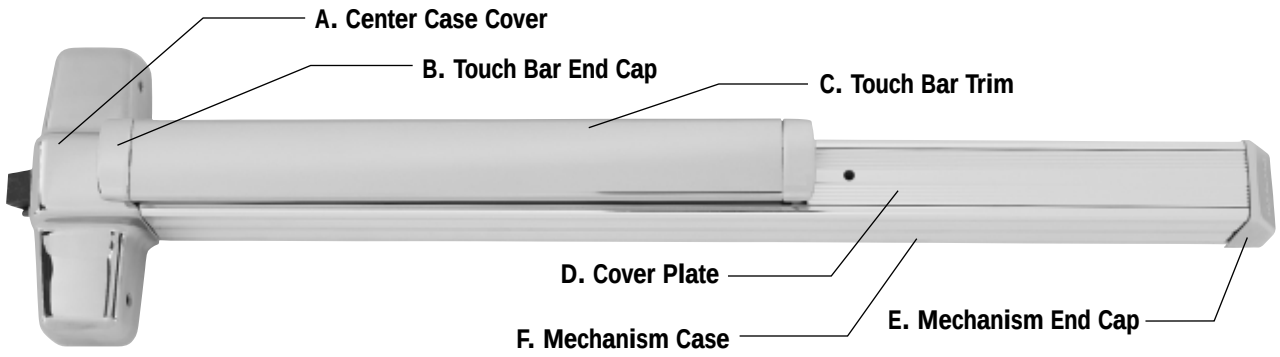
Two vertical rods—double egress



Two surface mounted vertical rod devices—same direction
(do not use with overlapping astragal)



Two FEH vertical rods with auxiliary fire latch—LBR option



Finishes

Color	US Number	BHMA Number	A, B, E	C	D & F
Brass, Polished	US3	605	Plated	Brass, Polished US3, 605	Buffed Anodized
Brass, Satin	US4	606	Plated	Brass, Dull US4, 606	Anodized
Bronze, Satin	US10	612	Plated/Anodized	Bronze, Dull US10, 612	Anodized
Chrome, Polished	US26	625	Plated	Stainless Steel, Polished US32, 629	Buffed Anodized
Chrome, Satin	US26D	626	Plated	Stainless Steel, Satin US32D, 630	Anodized
Stainless Steel, Satin*	US32D	630	Stainless Steel	Stainless Steel, Satin US32D, 630	Anodized
Aluminum, Anodized	US28	628	Powder Coat	Stainless Steel, Satin US32D, 630	Anodized
Duranodic Dark Bronze	313AN	710	Powder Coat	Brown Wrinkle Powder Coat	Anodized
Black Anodized	315AN	–	Powder Coat	Black Wrinkle Powder Coat	Anodized

Special Finishes

Color	US Number	BHMA Number	A, B, E	C	D & F
Bronze, Oil-Rubbed Satin	US10B	613	Plated	Bronze, US10B, 613	Anodized
Powder Coat	RAL #	–	Powder Coat	Stainless Steel, Satin US32D, 630	Powder Coat
Bronze, Polished	US9	611	Plated	Bronze, Polished US9, 611	Buffed Anodized
Nickel, Satin	US15	619	Plated	Stainless Steel, Satin US32D	Anodized

Touch Bar Trim Options:

Knurled

Embossed “Push”

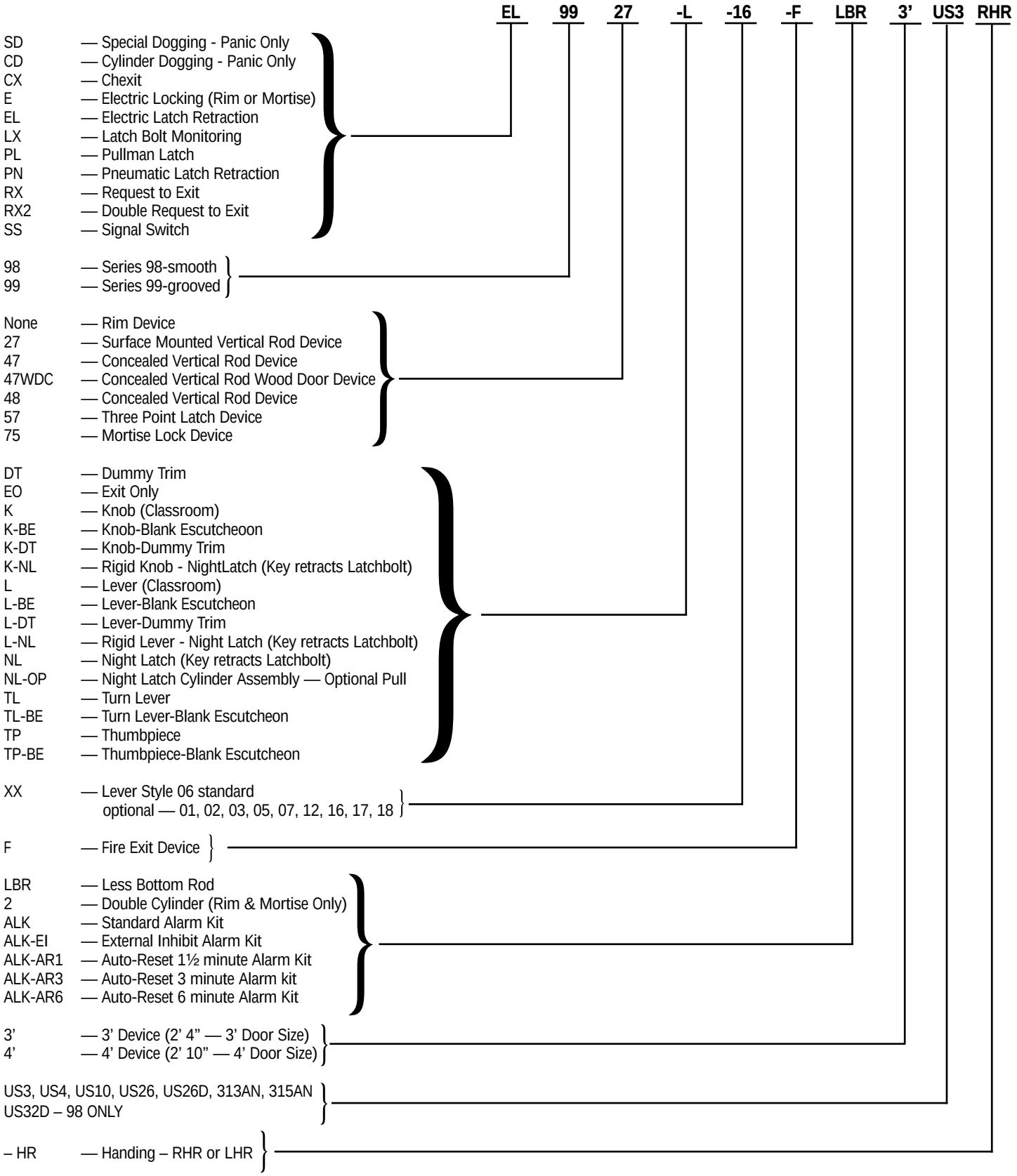
Braille, US32D Only, Embossed “Caution Stairwell”

SS, US32D Only, Red silk screen lettered “EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM.”

**US32D Finish—available on Series 98 only*

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Nomenclature – How To Order



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VON DUPRIN®

98/99™ Series Exit Devices

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VON DUPRIN®

AUXILIARY HARDWARE & GENERAL INFORMATION



Security & Safety
Proven Source. Proven Solutions.™

Finishes*



Color	US Number	BHMA Number
Chromium, Polished	US26	625
Anodized, Aluminum	US28	628
Chromium, Dull	US26D	626
Brass, Polished	US3	605
Brass, Dull	US4	606
Bronze, Dull	US10	612
Anodized Duranodic (Dark Bronze)	313AN	710
Anodized Black	315AN	—

*** NOTE:** Durable powder coated finishes available at specific special request. PLEASE CONTACT FACTORY.

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Symbols

Indicates Fire Rated Application

About Von Duprin

The disastrous Iroquois Theater fire in Chicago happened in 1903. Carl Prinzler, Manager of the Vonnegut Hardware Company Builders Hardware Department, was scheduled to be at the matinee, featuring Eddie Foy, but other matters prevailed and he was spared. Five hundred ninety people died, mainly because the theater doors opened inward.

Prinzler spent the next five years working with Henry Dupont, an architectural engineer, developing hardware to preclude a similar horror. Together they fashioned a lever that kept doors locked on the outside, yet unlocked from the inside. The pivotal element was the crossbar which opened the door outward once any part of the body touched it.

That was 1908. And the initial products were rather crude and ugly. Since that time, Von Duprin has been instrumental in transforming fire and panic exit hardware into sleek, attractive products available in a wide range of styles, functions and finishes.

Thorough and continuous research by Von Duprin has resulted in a parade of improvements and enhancements that has earned it the reputation of being the "R & D Department for the entire industry."

- Von Duprin was first to use drop forgings.
- Von Duprin was first with a special threshold, the Latch-Track.
- Von Duprin developed the first reversible exit device, the 88 rim type device.
- Von Duprin introduced the first extruded aluminum mullion.
- Von Duprin was first to market a concealed vertical rod device for metal doors.
- Von Duprin was first to market a concealed vertical rod device for wood doors.
- Von Duprin was the first to have a line of narrow stile devices, the type NC.
- Von Duprin produced the first stainless steel line of devices, the type 66 series.
- Von Duprin was the first with a line of pushpad devices, the type 33 series.
- Von Duprin was the first with electric locking and unlocking, the type E device.
- Von Duprin was the first with self contained delayed exit, CHEXIT®

In addition, during the 1920's Von Duprin developed the type Q device, which was approved by Underwriter's Laboratories, Inc., for three hour fire rated doors. Subsequently, Von Duprin has successfully tested the industry's most complete line of Fire Exit Hardware.

Along with these impressive developments, we are proud of our record of manufacturing quality products that give years and years of solid dependable service with minimum maintenance. While it is satisfying to reflect on these accomplishments, it is even more significant that Von Duprin has the purpose and the spirit to continue to lead an important industry in providing "THE SAFE WAY OUT!"

How the name "VON DUPRIN" originated: VON (Vonnegut Hardware Company), DU (DuPont), the architectural engineer, who helped PRIN (Prinzler) develop the first Von Duprin exit device.

UL Listings

Most Von Duprin exit devices are UL Listed for Panic Hardware or Fire Exit Hardware, and are tested in accordance to ANSI A156.3, 1994, Grade 1.

UL Listed Panic Hardware

To be UL listed a device must pass rigorous tests to prove it is mechanically sound and reliable. One test puts the device through 100,000 controlled open and close cycles. In another, the activating mechanism is required to operate with 50 pounds of pressure or less when 250 pounds of pressure is applied to the door in the direction of the swing.

Fire Exit Hardware

To carry the UL Label for Fire Exit Hardware, a device first must meet the Accident Hazard requirements. Secondly, the device must pass the burn test to prove that it can hold fire doors closed for up to a three hour period in temperatures over 1900°F. Immediately after burning, a fire hose with approximately 45 lbs. PSI pressure at the nozzle puts stress on the opening as a final test of the hardware's ability to hold the doors closed.

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ANSI Functions for Exit Hardware

A variety of ANSI functions are offered with each series. Each device section of the catalog contains a chart showing the ANSI types and functions available in the series.

01 — Exit Only, no trim

02 — Entrance by trim when actuating bar is locked down.

03 — Entrance by trim when latch bolt is retracted by key. Key removable only when locked.

04 — Entrance by trim when latch bolt is retracted by key or set in a retracted position by key.

05 — Entrance by thumbpiece. Key locks or unlocks thumbpiece.

06 — Entrance by thumbpiece only when released by key. Key removable only when locked.

07 — Entrance by thumbpiece. Inside key locks or unlocks thumbpiece. Outside key retracts latch.

08 — Entrance by knob or lever. Key locks or unlocks knob.

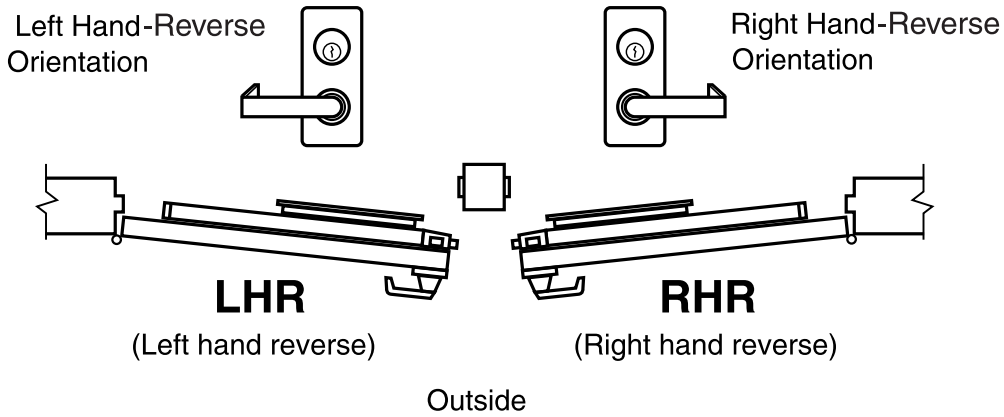
09 — Entrance by knob or lever only when released by key. Key removable only when locked.

10 — Entrance by knob or lever. Inside key locks or unlocks knob. Outside key retracts latch.

11 — Entrance by control turn piece. Key locks or unlocks control.

12 — Entrance by control turn piece only released by turning key. Key removable only when locked.

Door Handing



Abbreviations

-2 — Double Cylinder
-2 — Two Zone Controller
AC — Access Control Function
AFL — Auxiliary Fire Latch
AL — Alarm Function
AL — Aluminum
ALK — Alarm kit
AN — Anodized
AO — Auto Operator Function
ATMS — All template machine screws
BB — Battery Back-up
BE — Blank Escutcheon
BRS — Brass
BRZ — Bronze
CBMS — Crossbar Monitor Switch
CD — Cylinder Dog
CK — Conversion Kit
CV — Concealed Vertical Rod
CX — Chexit
CYL — Cylinder
DE — Delayed Egress
DR — Door
DS — Dual Signal Switch
DT — Dummy Trim
E — Electric Locking/Unlocking
EB — Entry Buzzer
EL — Electric Latch Retraction
EO — Exit Only
EPT — Electric Power Transfer
ES — Electric Strike
F — Fire Exit Hardware
FA — Fire Alarm
FEH — Fire Exit Hardware
FPH — Flat Phillips Head
FR — Frame
FS — Fail Safe
FSE — Fail Secure
GBK — Glass Bead Kit
HD — Hex Dogging
HH — Hurricane
HM — Hollow Metal
HS — High Security
INS — Insulclad
K — Knob
KAL — Kalamein
KN — Knurled
KR — Keyed Removable
L — Lever
LBR — Less Bottom Rod
LC — Low Current
LD — Less Dogging
LG — Latch Guard
LHR — Left Hand Reverse Bevel
LR — Latch Retractor
LX — Latchbolt Monitor Switch
M — Mortise
MS — Machine Screws
NL — Night Latch
NL-OP — Night Latch (Optional Pull)
OPH — Oval Phillips Head
PL — Pullman Latch
PN — Pneumatic Latch Retraction
R — Rim
RCM — Remote Chexit Module
RG — Rod Guard
RHR — Right Hand Reverse Bevel
RX — Request to Exit Switch
RX-2 — Request to Exit - Double Switch
SD — Special Center Case Dogging
SEC — Security Screws
SHM — Stock Hollow Metal
SI — Security/Safety Interlock Function
SNB — Sex Nuts and Bolts
SS — Stainless Steel
SS — Signal Switch
SSKD — Stock Size, Knocked Down
STMS — Strike Template Machine Screws
SV — Surface Vertical Rod
TD — Time Delay
TL — Turn Lever Control
TP — Thumbpiece Action
WD — Wood
WDC — Wood Door Concealed
WS — Wood Screws

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Nomenclature – How To Order

EL	99	47	WDC	TP	-F	RHR	CYL

EL

- CBMS — Crossbar Monitor Switch
- CD — Cylinder Dogging - Panic Only
- CX — Chexit
- CXR — Chexit – Remote Chexit Module
- E — Electric Locking (Rim or Mortise)
- EL — Electric Latch Retraction
- ES — Electric Strike
- HD-EL — Hex Dogging/Electric Latch Retraction
- HS — High Security
- HH — Hurricane
- LD — Less Dogging
- LX — Latch Bolt Monitoring
- PL — Pullman Latch
- PN — Pneumatic Latch Retraction
- RX — Request to Exit
- RX2 — Request to Exit – Double Switch
- SD — Special Center Case Dogging
- SS — Signal Switch

99

- 22 — Series 22
- 33A — Series 33A
- 35A — Series 35A
- 55 — Series 55
- 88 — Series 88
- 94 — Series 94
- 95 — Series 95
- 98 — Series 98
- 99 — Series 99

47

- None — Rim Device
- 27 — Surface Mounted Vertical Rod Device
- 47 — Concealed Vertical Rod Device
- 48 — Concealed Vertical Rod Device
- 57 — Three Point Latch Device
- 75 — Mortise Lock Device

WDC

- WDC — Wood Concealed Door

TP

- DT — Dummy Trim
- EO — Exit Only
- K — Knob (Classroom)
- L — Lever (Classroom)
- NL — Night Latch (Key retracts Latchbolt)
- NL-OP — Night Latch Cylinder Assembly — Optional Pull
- TL — Turn Lever
- TP — Thumbpiece
- BE — Blank Escutcheon

-F

- F — Fire Exit Device

RHR

- RHR — Right Hand Reverse Bevel
- LHR — Left Hand Reverse Bevel

CYL

- 2 — Double Cylinder (Rim & Mortise Only)
- ALK — Alarm Kit
- AFL — Auxiliary Fire Latch
- CYL — Cylinder
- LBR — Less Bottom Rod
- FS — Fail Safe
- FSE — Fail Secure
- GBK — Glass Bead Kit
- INS — Insulclad
- RG — Rod Guard
- SNB — Sex Bolts
- SEC — Security Screws
- SLM — Special Manufacturer for high density blocking

Consult individual device catalogs for option and accessory compatibility.

Sex Bolts

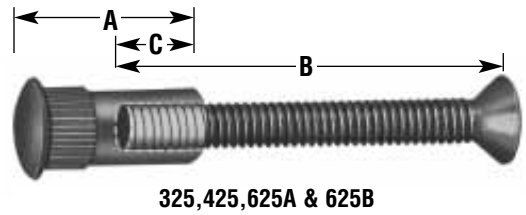
Sex Bolts when ordered with devices may be furnished with screw lengths different than shown in Column B. On page 7, Column B indicates popular sizes. Sex Bolts ordered separately are not furnished with screws. If screws are required refer to chart on page 7 and order screws by description as a separate item. Other screw lengths may be used based on minimum and maximum allowable thread engagement, shown in column "C." Quantity required — refer to device section, quantities differ depending on outside trim.

425 sex bolts are required for 22/88/98/99 series fire rated devices when used on wood door applications. When wood doors are specified for these devices, sex bolts will be added to the device application unless SLM blocking package is specified.

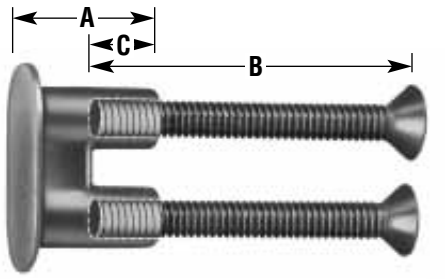
825 sex bolts are required with 98-F/99-F rim devices on wood door applications using EO, NL, TP, K and L outside trims. Two 825 sex bolts will be added to the device application unless SLM blocking package is specified.

To Order, Specify:

1. Model number
2. Quantity (2 per package)
3. Finish
4. Door thickness other than 1¾´´ *(44mm).*



325,425,625A & 625B



525



325



425



825



625A



625B

Refer to page 7 for A, B and C lengths

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Rim, Mortise and Concealed Vertical Rod

Device Type	Door Thickness	Center Case				Hinge Case			
		Sex Bolt		B Screw	C Thread Engagement Min. – Max.	Sex Bolt		B Screw	C Thread Engagement Min. – Max.
		No.	A			No.	A		
22	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″
33A, 3347A, 3347A-F	1¾″ *(44mm)*	325	1⁹⁄₃₂″	¼-20 x 1″ FPHMS	⅜″ – ¹¹⁄₁₆″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″
35A, 3547A, 3547A-F	2¼″ *(57mm)*	325	1⁹⁄₃₂″	¼-20 x 1½″ FPHMS	⅜″ – ¹¹⁄₁₆″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″
55	1¾″ *(44mm)*	625A	2⁵⁄₁₆″	12-24 x ¾″ OPHMS	¹¹⁄₃₂″ – ¹³⁄₁₆″	625A	2⁵⁄₁₆″	12-24 x ¾″ OPHMS	¹¹⁄₃₂″ – ¹³⁄₁₆″
	2¼″ *(57mm)*	625B	2¹³⁄₁₆″	12-24 x ¾″ OPHMS	¹¹⁄₃₂″ – 1″	625B	2¹³⁄₁₆″	12-24 x 1¼″ OPHMS	¹¹⁄₃₂″ – 1″
5575, 5575-F 5547, 5547-F	1¾″ *(44mm)*	—	—	—	—	625A	2⁵⁄₁₆″	12-24 x ¾″ OPHMS	¹¹⁄₃₂″ – ¹³⁄₁₆″
	2¼″ *(57mm)*	—	—	—	—	625B	2¹³⁄₁₆″	12-24 x 1¼″ OPHMS	¹¹⁄₃₂″ – 1″
88, 88-F, 8875, 8875-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″
8847-F	1¾″ *(44mm)*	—	—	—	—	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	—	—	—	—	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″
98, 9875, 9875-F, 9847, 9847-F, 99, 9975, 9975-F, 9947, 9947-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″
98-F, 99-F*	1¾″ *(44mm)*	425 825A*	1⁹⁄₁₆″ 1¹³⁄₁₆″	10-24 x 1″ PPHMS 10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″ ⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425 825B*	1⁹⁄₁₆″ 2⁵⁄₁₆″	10-24 x 1½″ PPHMS 10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″ ⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″

** For use with outside trims, see page 6 for details*

Surface Vertical Rod

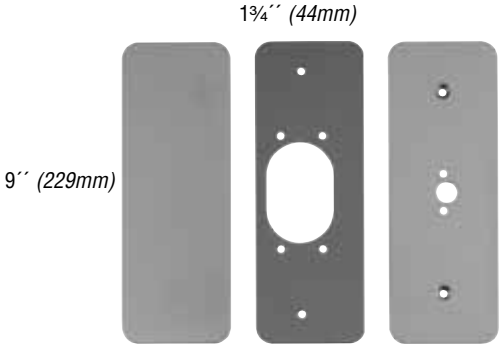
Device Type	Door Thickness	Center Case				Hinge Case				Top & Bottom Latch Case			
		Sex Bolt		B Screw	C Thread Engagement Min. – Max.	Sex Bolt		B Screw	C Thread Engagement Min. – Max.	Sex Bolt		B Screw	C Thread Engagement Min. – Max.
		No.	A			No.	A			No.	A		
2227, 2227-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″	325	1⁹⁄₃₂″	¼ -20 x ¾″ UFPHMS	⅜″ – ¹¹⁄₁₆″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″	325	1⁹⁄₃₂″	¼ -20 x 1¼″ UFPHMS	⅜″ – ¹¹⁄₁₆″
3327A 3527A	1¾″ *(44mm)*	325	1⁹⁄₃₂″	¼-20 x 1″ FPHMS	⅜″ – ¹¹⁄₁₆″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″	325 325	1⁹⁄₃₂″	¼ -20 x ¾″ UFPHMS	⅜″ – ¹¹⁄₁₆″
	2¼″ *(57mm)*	325	1⁹⁄₃₂″	¼-20 x 1½″ FPHMS	⅜″ – ¹¹⁄₁₆″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″	325 325	1⁹⁄₃₂″	¼ -20 x 1¼″ UFPHMS	⅜″ – ¹¹⁄₁₆″
8827, 8827-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1½″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″
	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 2″ OPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″
9827, 9827-F 9857 9857-F	1¾″ *(44mm)*	425	1⁹⁄₁₆″	10-24 x 1″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x ¾″ PPHMS	⁹⁄₃₂″ – ⅝″	325	1⁹⁄₃₂″	¼ -20 x ¾″ UFPHMS	⅜″ – ¹¹⁄₁₆″
9927, 9927-F 9957 9957-F	2¼″ *(57mm)*	425	1⁹⁄₁₆″	10-24 x 1½″ PPHMS	⁹⁄₃₂″ – ⅝″	425	1⁹⁄₁₆″	10-24 x 1¼″ PPHMS	⁹⁄₃₂″ – ⅝″	325	1⁹⁄₃₂″	¼ -20 x 1¼ ″ UFPHMS	⅜″ – ¹¹⁄₁₆″

(FPHMS — Flat Phillips Head Machine Screw; OPHMS — Oval Phillips Head Machine Screw; PPHMS — Pan Phillips Head Machine Screw UFPHMS — Undercut Flat Phillips Head Machine Screw)

Cover Plates

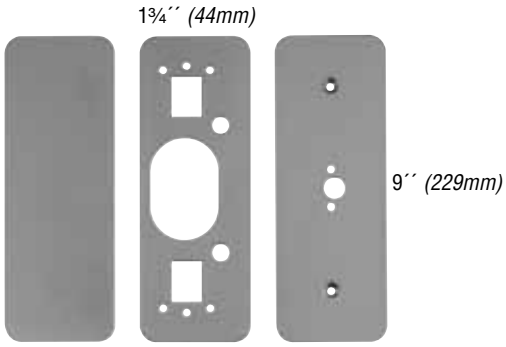
229 Kit
(For 22 Rim Device)

Kit contains inside and outside plates for hinge stile cutouts, an inside plate for the the lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations. Specify finish.



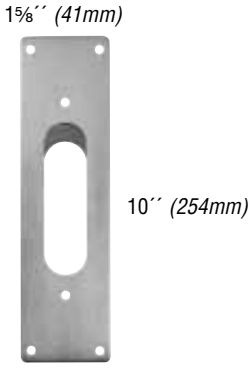
997 Kit
(For 98/99 Rim Device)

Kit contains inside and outside plates for hinge stile cutouts, an inside plate for lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations. Specify finish.



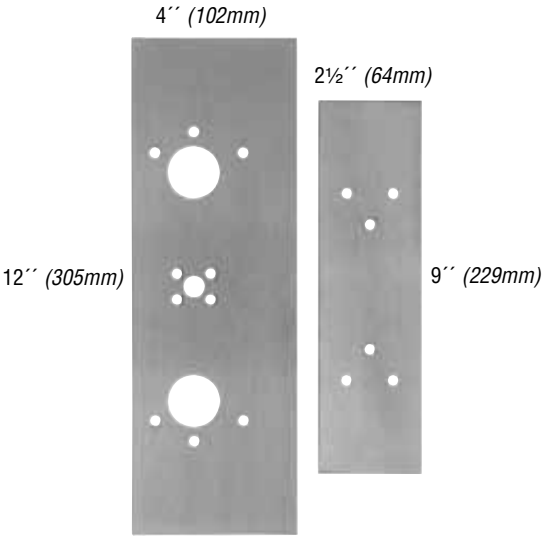
589 Kit
(For 5575 Device)

Kit contains plates for the lock stile and hinge side of the device, and necessary screws. Plates are designed to mount to device on wood door applications. The mortise lock cut-out interferes with device mounting. Specify finish and door width other than 1¾´´ *(44mm)*.



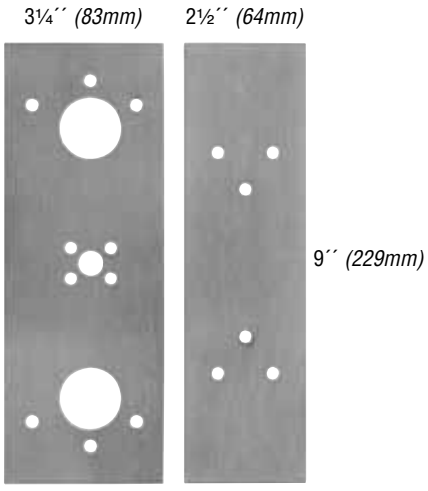
882 Kit
(For 88 Rim Device)

For use to cover mortise lock or discontinued device cut-outs. Specify finish.



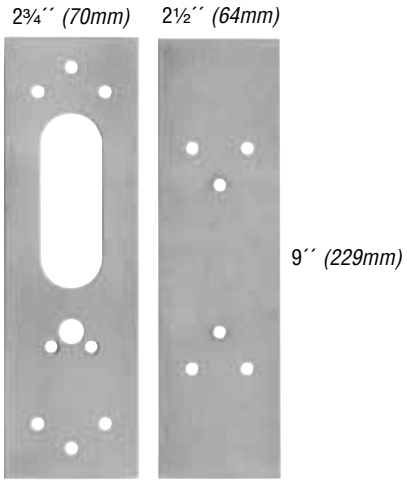
887 Kit
(For 88 Rim/8827 Devices)

For use with rim/vertical device combinations on pairs of doors with ANSI cut-out. The 88 rim device backset is increased and exposes the 161 cutout when used with an 8827. Specify finish



888 Kit
(For 8875 or 8827 Devices)

For use on doors with ANSI 161 cutouts. Device center case will not cover stock cutout. Specify finish.



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Cover Plates

889 Kit
(For 373L Control)

Required when 373L controls are used with sex bolts. Four studs on cover plate allow through bolting to the device center case. **Note:** Sex bolts must be used on wood or composite fire doors. Specify device type R, M, or V and finish.

3´´ *(77mm)*

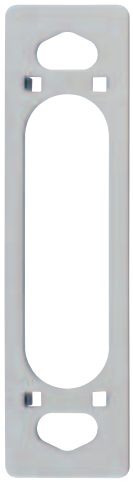


11´´ *(267mm)*

#10 WDA Kit
(For 370 Series Controls)

For wood door applications, used to cover up door preparations for control, also prevents the control from boring into the wood door. Finished to match control.

2⅛´´ *(29mm)*



8´´ *(204mm)*

33A WDA Kit
(For 360 Series Controls)

For wood door applications to cover up door preparations for control, also prevents the control from boring into the wood door. Finished to match control.

2⅛´´ *(29mm)*



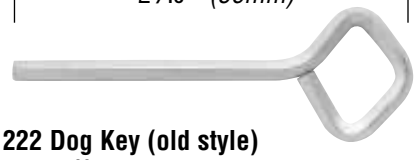
8´´ *(204mm)*

998 Kit
(For 994L Trim)

For use with 994 lever trim to cover existing 992 lever trim cut-out. Specify finish

Dog Keys

2³⁄₁₆´´ *(56mm)*



222 Dog Key (old style)
⁷⁄₃₂´´ *(6mm)* hex

2¾´´ *(70mm)*

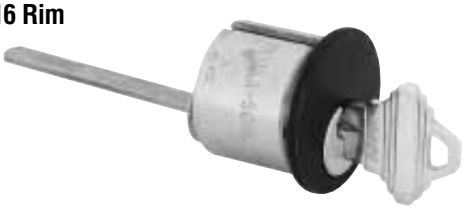


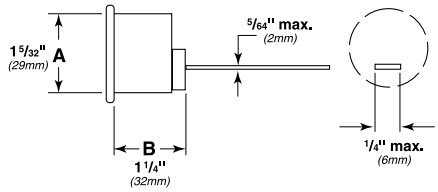
227 Dog Key (standard)
⁵⁄₃₂´´ *(4mm)* hex

Cylinders

Cylinders are not furnished with device or trim (unless noted) and must be specified when ordering. Only available with Schlage "C" Keyway. Specify finish when ordering separately. Custom keying is not available.

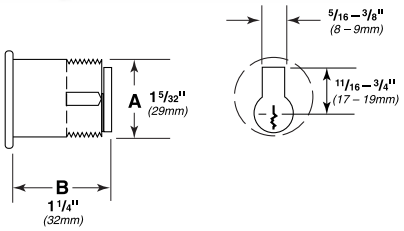
3216 Rim





3215 Mortise (Schlage B502-191 cam)





3218 Dummy



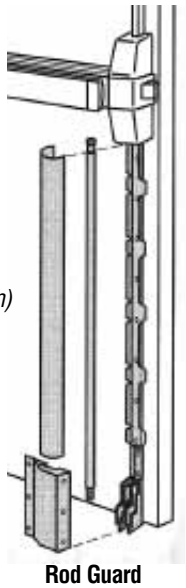
Glass Bead Kit – GBK

Glass bead conversion kits are used on doors with glass beads. Each kit consists of ¼" *(6mm)* shim sets. GBK for Surface Vertical Rod ships with ⅛" *(3mm)* shims for rod guides. Shims are not required for top and bottom latches

To Order, Specify:

1. Device Model. Example: 99GBK
2. Device type (Rim, Mortise, Surface Vertical Rod, Concealed Vertical Rod)
3. Wood Door, when used with Concealed Vertical Rod
4. Specify if using with 499F Strike
5. Finish

Vertical Rod and Latch Guard — RG-27



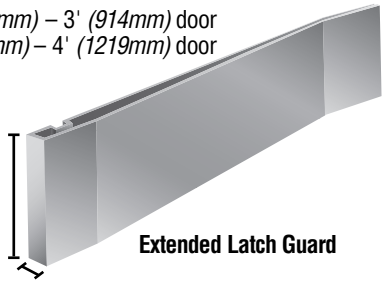
Rod Guard

Series RG-27 Vertical Rod and Latch Guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. If bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.

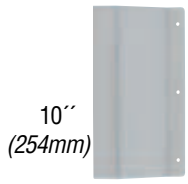
In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easily with the bumpers of a wheelchair. The standard latch guard features a 45° ramp and a continuous ramp on full width or extended latch guard.

All stainless steel construction in US32D finish. Latch guards can cover latches as large as 1¼"W x 10"H x 1⅞" *(32mm x 254mm x 48mm)* projection. For use on Hollow Metal Fire-Rated Doors.

33⅛" *(841mm)* – 3' *(914mm)* door
45⅛" *(1146mm)* – 4' *(1219mm)* door



Extended Latch Guard



4⅜"
(111mm)

Latch Guard

Models

RGO	— Rod guard only (Projection 1 3⁄16" *(30mm)*).
RG-27	— Rod and latch guard.
RG-27-3	— 3' *(914mm)* Rod Guard and Extended Latch Guard.
RG-27-4	— 4' *(1219mm)* Rod Guard and Extended Latch Guard.
LGO	— Latch guard only.
LGO-3	— 3' *(914mm)* Extended latch guard only.
LGO-4	— 4' *(1219mm)* Extended latch guard only.

Note: Not for use on wood fire doors

To Order, Specify:

1. Model number.
2. Handing (except on RGO).
3. Door material if other than Hollow Metal.
4. Optional sex bolt mounting available.

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Series 237L Two Point Latch



Series 237L Two Point Latch Assembly is ideal for use on standard hollow metal or fire doors, up to 4´0´´x8´0´´ *(1219mm x 2438mm)*. UL listed for three hour "A" label applications. This product can not be used on doors requiring panic or fire exit hardware. It can be used on the inactive leaf of a pair with a lockset or both leaves of a pair.

The series 237 features a top soffit latch and ratchet release for long service life and dependability.

Furnished standard with one lever control assembly with mounting plate for the push side. This lever operation is always unlocked (L-BE). A second control lever can be ordered separately for the pull side, either model 378L-BE (always unlocked) or model 378L (with cylinder locking). Cylinders not included.

Lever operation meets all ADA requirements.

To Order, Specify:

1. Model number 237L-BE.
2. Optional second control, 378L or 378L-BE.
3. Handing (see charts below).
4. Finish.

Optional lever styles are available.



#03



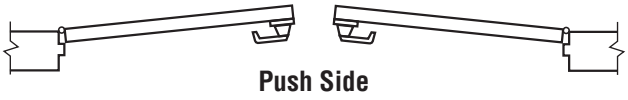
#06
(standard)



#17

HANDING – How To Order

Outswing Door Application



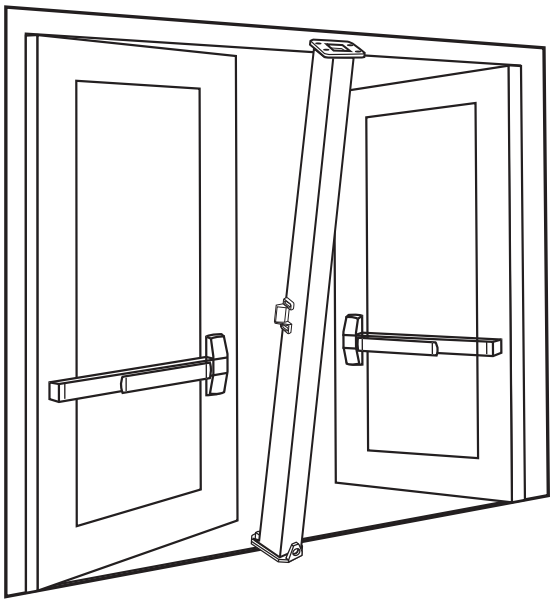
Push Side

237L-BE – RHR

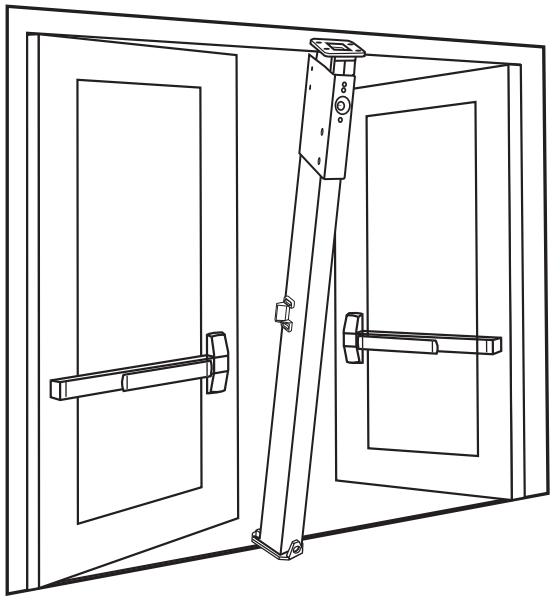
237L-BE – LHR

NOTE: For Inswing Door Applications that require locking on the Push Side, consult factory. Outswing door will be assumed if not specified.

Removable Mullions



Keyed Removable Steel Mullions



Mullions

Removable Steel Mullions Mullions provide single door performance in double door openings with rim devices. Mullions are easily removed by loosening bottom set screw and removing top fitting cover. The top mullion fitting is attached to the frame and is concealed by the fitting cover.

Steel mullions are 2˝ *(51mm)* wide and 3˝ *(76mm)* deep, with a wall thickness of ⅛˝ *(3mm)*.

Mullions are shipped with mounting screws and prepared for strikes. Strikes are not included except where indicated.

Steel mullions are available in SP28 and SP313 finishes. Consult factory for other powder coat finish options.

KR – Keyed Removable Steel Mullions makes removal faster and easier by a single operation of the mortise cylinder. Once mullion is removed, large equipment or furniture can freely pass through the opening. The unit will self lock when re-installed, without use of the cylinder key. Uses a 1¼˝ mortise cylinder with a straight cam (Schlage cam reference B502-191). Cylinders are sold separately. Prefix mullion model with “KR”.

Removeable Aluminum Mullions are 1$\frac{1}{16}$˝ *(27mm)* wide on face closest to the door and 2⅜˝ *(60mm)* at the widest point. The depth is 3⅛˝ *(79mm)* with a wall thickness of ⅛˝ *(3mm)*.

Aluminum mullions are available in US4, US10, US28, 313AN and 315AN finishes. Consult factory for other powder coat finish options.

Stock Hollow Metal Applications for devices mounted to cover ANSI 161 cutouts are higher than the standard mullion strike location. Consult the factory for special strike preparation or order a blank mullion. See below.

Blank Mullions are furnished without strike preparation. They are used to mount devices at a strike height different from the standard mullion preparation.

To Order, specify

1. For keyed Removable option on steel mullions, prefix model number with “KR”
2. Model number.
3. Height of opening
4. Finish
5. Handing if required.
6. Centerline deviation (refer to device template for standard centerline).
7. Strikes, when required, should be ordered with device.
8. For keyed Removable option on steel mullions, prefix model number with “KR”

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Steel Mullions

1654 Prepared for two 1606 strikes. **If 1606 strikes are not specified on the order, two per mullion will be added. Additional charges apply.**

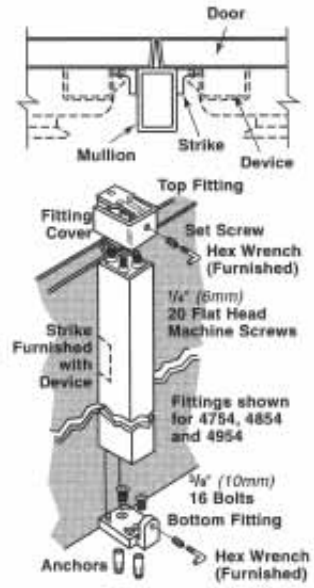
4954 Prepared for 264 or 299 strikes. For use with all Von Duprin Panic rim devices. **Note: specify strike choice with device.**

9954 Prepared for and must be used with two 268 strikes (88-F device), or two 499F (22-F, 98-F, 99F devices). UL fire labeled mullion for up to 3 hour opening using Von Duprin fire exit rim devices. This mullion is not easily removed due to special fittings.

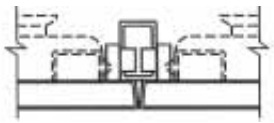
22-F and 88-F devices are rated up to 8´ x 8' *(2438mm x 2438mm).*

98-F and 99-F devices are rated up to 10´0´´ *(3048mm).*

Note: If 268 or 499F strikes are not specified on the order, two per mullion will be added. Additional charges apply.

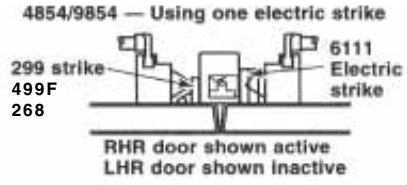


4754 Prepared for two 4263 monitor strikes.



4854 Prepared for one 299 and one 6111 electric strike. Indicate handing for electric strike.

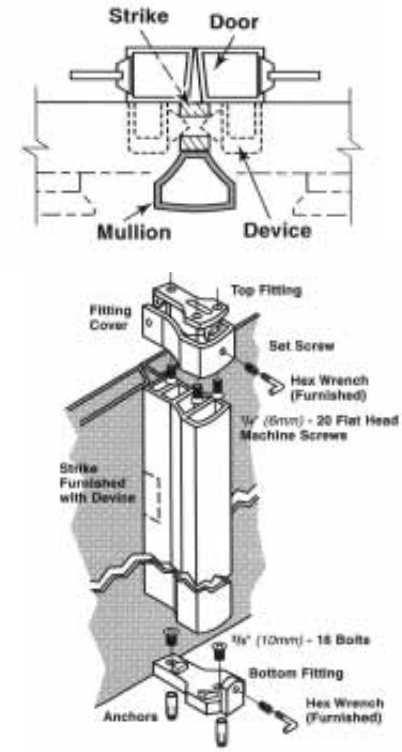
9854 Prepared for one 268 or 499F strike and one 6111 electric strike. Indicate handing for electric strike. UL fire labelled mullion for up to 3 hour openings up to 8' x 8' (*2438mm x 2438mm)* using Von Duprin Fire Exit Rim Devices



Aluminum Mullions

5654 Prepared for two 264 or 299 strikes with weatherstripping. Includes one set of 154 stabilizers.

5754 Prepared and furnished with one 1408 double door strike. Includes one 154 stabilizer set.
Note: specify device "less strike".



Sizes for Mullions

1654, 4954, 4754, 4854, 5654, 5754	9854, 9954
7´ 2´´ *(2184mm)*	7´ 3´´ *(2210mm)*
*8´ 2´´ *(2489mm)*	8´ 3´´ *(2475mm)*
*10´ 2´´ *(3099mm)*	10´ 3´´ *(3124mm)*

KR1654, KR4954, KR4754, KR4854	KR9854**, KR9954***
7´ 6´´ *(2286mm)*	7´ 5´´ *(2261mm)*
8´ 6´´ *(2591mm)*	*8´ 5´´ *(2565mm)*
10´ 6´´ *(3200mm)*	*10´ 5´´ *(3175mm)*

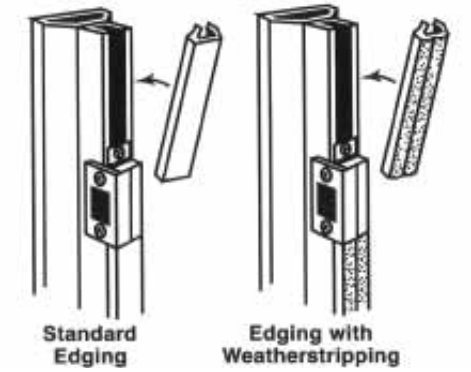
* Only qualifying applications will be provided with UL Label.

** Fire rated same as 9854

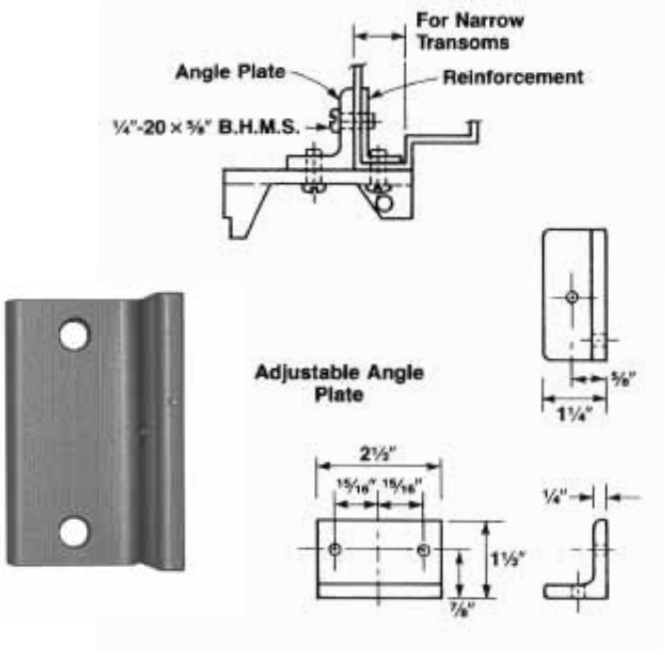
*** Fire rated same as 9954

Weatherstripping

Weatherstripping retards cold air from blowing between doors and mullion. It also serves as a silencer when the door is closed against the mullion. The silicone treated weatherstrip pile is bonded to a polypropylene backing. A slide-in molding houses the weatherstripping, covers mounting screws of the strike and extends to both the top and bottom of the mullion. Available on Aluminum Mullions only.



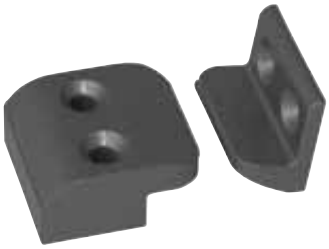
Angle Plate is used with narrow transom frames. The plate attaches to the transom extending the surface area needed to mount the mullion. Must be ordered separately. Specify finish.

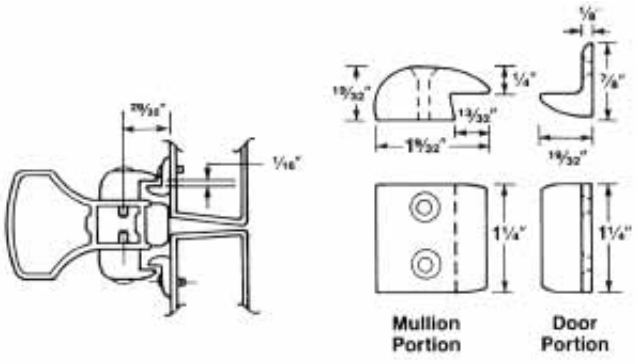


154 Stabilizer is a two-piece interlocking set. One piece mounts on the mullion with the top mounting hole 5³⁄₁₆´´ *(148mm)* below the centerline of the strike; the other piece mounts on the door. Shims are provided to adjust for misalignment between the door and mullion.

The set maintains integrity between the door and mullion to prevent vandalism and to ensure contact between the device and strike as the doors expand and contract with temperature changes.

Furnished standard on aluminum mullions; optional for steel and all blank steel mullions.





MT54 Storage Kit is a set of floor and wall brackets that provide convenient storage of the keyed removable mullion when removed from the opening.

To Order, specify

1. Model MT54.
2. Finish SP28, SP313, or SPBLK

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VON DUPRIN®

DOOR CONTROL AND SECURITY HARDWARE



Security & Safety
Proven Source. Proven Solutions.™

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Electric Strikes provide remote release of a locked door. They allow the door to be opened without retracting the latchbolt. This occurs by the releasing of the electric strike lip (sometimes called keeper or gate). When the door closes the beveled latchbolt rides over the lip and falls into the electric strike pocket.

VON DUPRIN SERIES 6000 ELECTRIC STRIKES

Von Duprin is the leading manufacturer of premium, heavy duty electric strikes. Known for their reliability, durability and security 6000 Series strikes feature all stainless steel construction, are non-handed and available in 12V or 24V, DC or AC. Strikes are furnished fail secure (FSE) standard, with fail safe (FS) optional. Strike box is adjustable to compensate for any misalignment of the door or frame. Two-piece plug connectors are furnished for ease of installation and for removal during strike servicing.

To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on page 13. When using a lockset not listed or when retrofitting a strike to an existing application, consult Von Duprin for application assistance.

OPTIONS

AC Operation
SO12 and SO24 are rectifier kits to convert AC voltage to operate the DC solenoids. These kits are field installable and plug in-line to solenoid.

DS and DS-LC — Dual Switch Monitoring (Factory Installed Only)
Dual switch monitoring option has two SPDT contacts, one switch monitors the tripper which is depressed when the latchbolt is inserted into the strike pocket. The second switch monitors the condition of the strike lip, open or closed and locked.

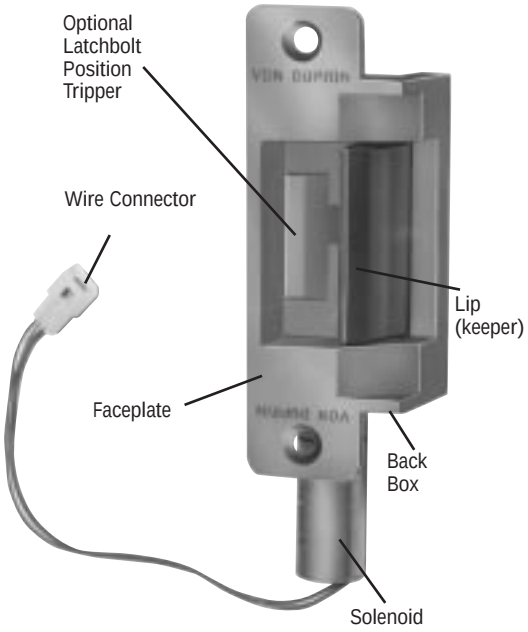
Two switch options are available — DS and DS-LC.
DS is standard, rated 24V, operating range from 2 ampere to 50 milliampere.

DS-LC low volt gold contact switches for use on applications associated with computer control and monitoring, rated 24V, operating range 50 milliampere or below.

Fail Secure — FSE
FSE — FAIL-SECURE electric strikes require power to be applied to unlock the strike lip. On loss of power, the strike is locked. Field convertible.

Fail Safe — FS
FS — FAIL-SAFE electric strikes require power to be applied to lock the strike lip. On loss of power, the strike is unlocked. Building codes prohibit the use of fail-safe strikes on labeled openings. Field convertible.

Entry Buzzer — EB
EB — Entry buzzer is available for use with fail-secure strikes. Installed in the frame and in parallel with the circuit, the buzzer will sound when the strike is unlocked.



UL LISTED
UL Listed Burglary-Resistant and Electric Strike for fire doors and frames. A label for single doors and B label for double doors. Strikes are tested in accordance with BHMA Standard 501 and ANSI 156.5, Grade 1, 1984.

TO ORDER, SPECIFY
1. Model number
2. FS (fail safe, when required)
3. DS or DS-LC (dual switch, when required)
4. Voltage 12VDC or 24VDC
5. SO12 or SO24 (required when using AC)
6. Finish
7. Entry buzzer, FSE only (when required)

Note: Information listed is for use on new applications. On retrofit applications, modification of the frame preparation may be required, consult factory.

VON DUPRIN® 6111, 6112, 6113 Electric Strikes

6111
Electric strike for use with rim exit devices on single doors or double doors with mullion applications (hollow metal, aluminum or wood). Designed to replace Von Duprin 3031. 55-ENGR no charge.

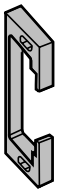
6112
Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood). Designed to replace Folger Adam 310-4, minor frame prep required.

6113
Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood), ½″ *(13mm)* stop or greater. Designed to replace Von Duprin 3011 and 3021.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer

6111/6113 ELECTRIC STRIKE BLADE STOP SHIM 010055-XX



Use on cased opening or blade stop frame. ½" (13mm) aluminum, not for fire door application.



6111



6112



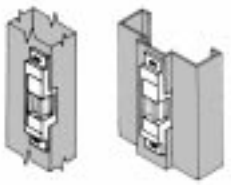
6113

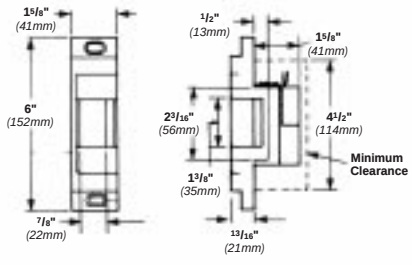
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59311
Listing applies to Von Duprin rim devices.

DIMENSIONS AND CONFIGURATIONS

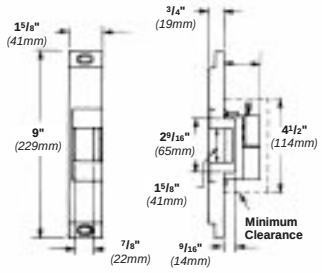
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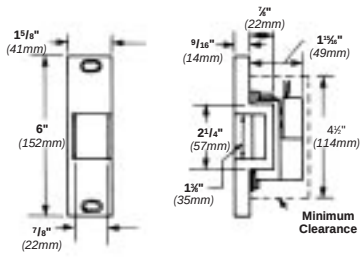
6112





6113





VON DUPRIN® 6114, 6121 Electric Strikes

6114
Electric strike for use with rim night latches having up to ¾″ *(19mm)* bolt throw. Replace Folger Adam 310-5.

6121
Electric strike for use with rim exit devices on double door applications, without mullion (hollow metal, aluminum or wood). Strike mounts on inactive leaf. Replace Folger Adam 310-4-100.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer



6114



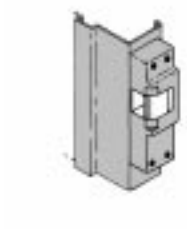
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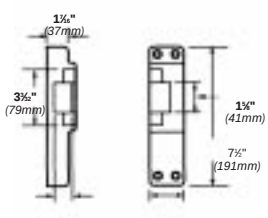
UL listed Burglary Resistant CVXY. ANSI E59371

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

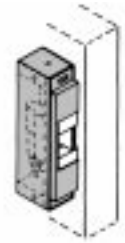
DIMENSIONS AND CONFIGURATIONS

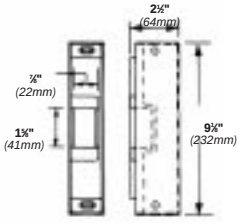
6114





6121





6210
Electric strike for use with mortise locks **without deadbolt** on single door, hollow metal frame applications and using ANSI prep at standard height. Strike pocket inserts are provided to accommodate different manufacturers deadlocking trigger locations.

6211
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal frame applications. Designed to replace Von Duprin 3140 or Folger Adam 712.

6211AL
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, aluminum frame applications. Designed to replace Folger Adam 722.

6211WF
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications. Designed to replace Folger Adam 732.

FEATURES
- All Stainless Steel Construction
- Accepts ¾" (19mm) Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer



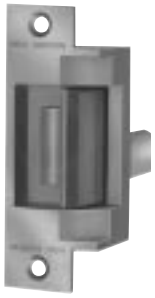
6210



6211



6211AL



6211WF

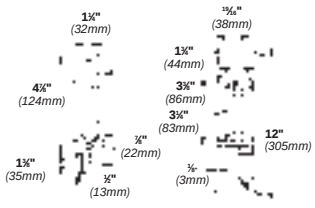
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

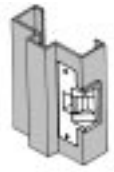
DIMENSIONS AND CONFIGURATIONS

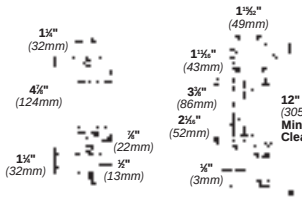
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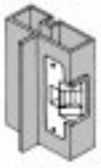


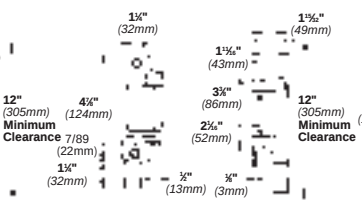
6211



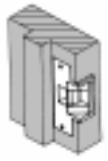


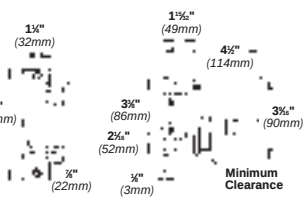
6211AL





6211WF





VON DUPRIN® 6212, 6212WF Electric Strikes

6212
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications.
Fits modified ANSI 115.2 cutout.
Designed to replace Von Duprin 3146.

6212WF
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications.

Note: Strike pocket insert is furnished for use with Von Duprin 7500 mortise lock.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer

Strike mounting tabs are furnished for use with modified ANSI 115.2 cutout. Tab can be machine screw mounted or welded in place.



6212



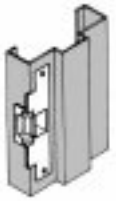
6212WF

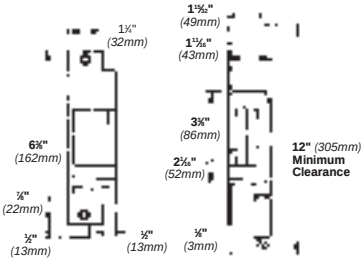
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

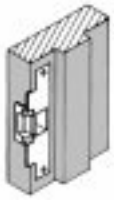
DIMENSIONS AND CONFIGURATIONS

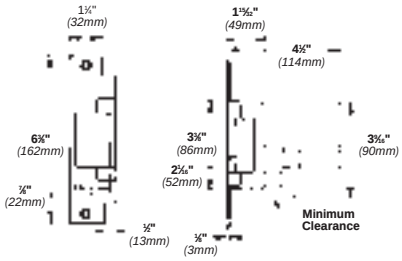
6212





6212WF





VON DUPRIN® 6213, 6214, 6215, 6216 Electric Strikes

6213
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications (includes wood frame on retrofit application). Designed to replace Von Duprin 3041, 3042, 3061 and 3062.

6214
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2¾.

6215
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2.

6216
Electric strike for use with mortise locks **with deadbolt**, 1″ *(25mm)* throw, on single door, hollow metal, aluminum or wood frame applications. Deadbolt must be manually operated. Designed to replace Folger Adam 310-3-1.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer



6213



6214



6215



6216

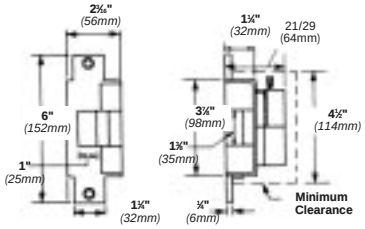
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

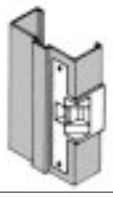
DIMENSIONS AND CONFIGURATIONS

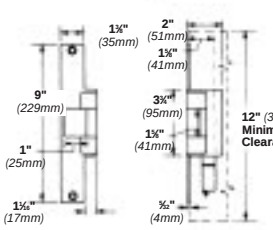
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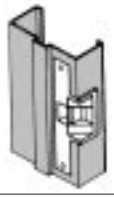


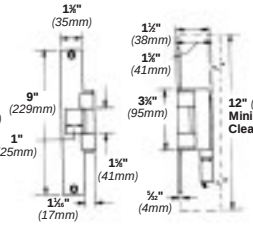
6214



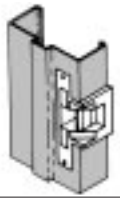


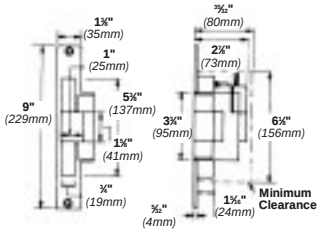
6215





6216





VON DUPRIN® 6221, 6222, 6225 Electric Strikes

6221
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. Designed to replace Von Duprin 3071 and 3072.

6222
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal or aluminum applications. Designed to replace Folger Adam 310-23/4 OB. No DS option for open backs (47″ x 75″ use "A" Backbox.) No extra charge.

6225
Open back electric strike for use with mortise locks without deadbolt or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal or aluminum applications. Designed to replace Folger Adam 310-2 OB.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Plug Connectors

OPTIONS
- Fail Safe
- Entry Buzzer



6221



6222



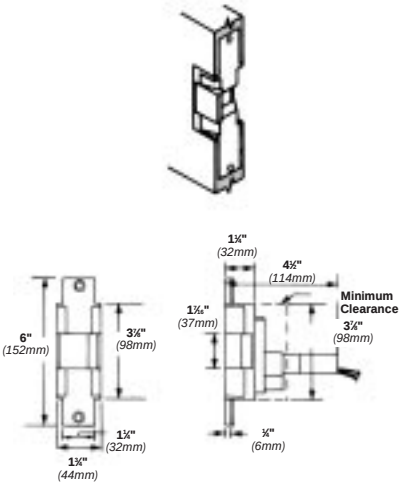
6225

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

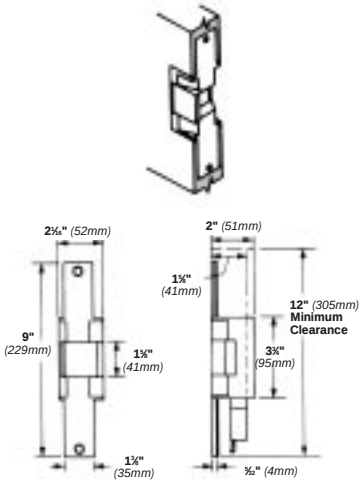
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

DIMENSIONS AND CONFIGURATIONS

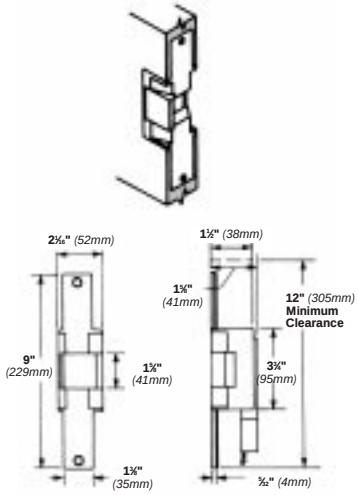
6221



6222



6225



VON DUPRIN® 6223, 6224, 6224AL, 6226 Electrical Strikes

6223
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. Designed to replace Von Duprin 3091 and 3092, mortise applications only — 4¾″ (*120mm*) minimum stile required.
Not for wood applications.

6224
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2¾.
Not for wood applications.

6224AL
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick aluminum double door applications. Designed to replace Folger Adam 310-2RF.

6226
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2.
Not for wood applications.

FEATURES
- All Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Plug Connectors

OPTIONS
- Fail Safe
- Dual Monitor Switches
- Entry Buzzer



6223



6224



6224AL

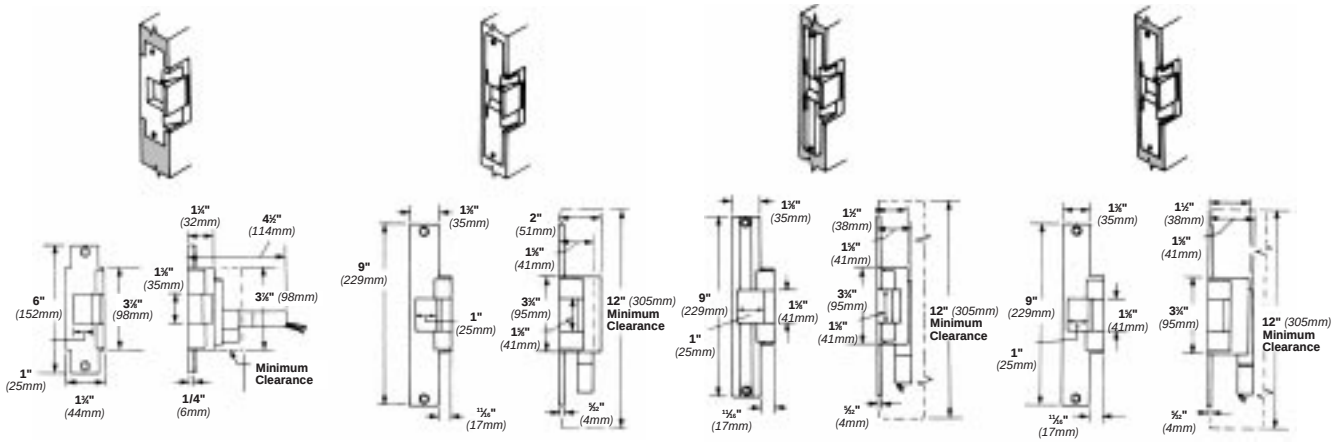


6226

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	72
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

6223	6224	6224AL	6226



VON DUPRIN® 5100 Electric Strike

5100

The Von Duprin 5100 Electric Strike has been designed and manufactured to meet the needs of locksmiths and security professionals. This easy-to-install electric strike was created for medium duty applications,specifically to control traffic flow through interior and exterior openings in retail and commercial environments. And because it's the Von Duprin brand, you know that you can depend on the product quality and performance.

VERSATILITY

Fewer products to inventory and more value for your money.

- Three faceplates included for hollow metal, wood or aluminum frames.
- Internal 12/24 dual-voltage solenoid.
- Adjustable keeper.
- Fail-safe/fail-secure selectability.

CONVENIENCE

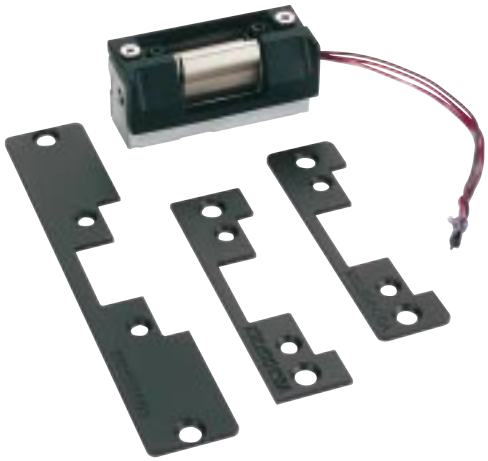
The right parts in the box means getting the job done right the first time, every time.

- Reduce labor expense.
- Fewer return trips to the job site.

DURABILITY

Developed with Von Duprin's high standards and engineering expertise.

- Heavy-duty construction.
- Tamper resistant design.
- Tested to over one million cycles.
- 1300 lbs. holding strength.



FEATURES

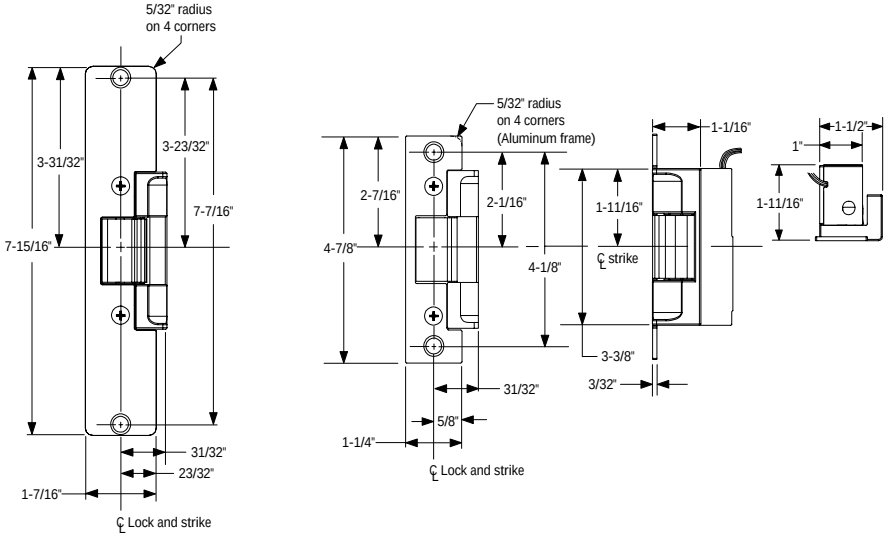
- Three faceplates standard in every box
- 12/24 dual-voltage
- Fail-safe/fail-secure
- Adjustable keeper
- Internal solenoid
- Non-handed
- Backbox depth of $1\frac{11}{16}$"
- Keeper depth of ½"
- Mounting tabs
- Retrofit kit
- Illustrated installation instructions
- Tamper resistant
- 1 year electrical product warranty
- Continuous duty operation
- Heavy duty construction

APPLICATIONS

- Cylindrical locks
- Aluminum dead latch

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	32	128
Power (watts)	4.5	4.5
Current (amps)	.38	.19

All specs ± 10% @ 77°F/25°C
ANSI/BHMA 156.5 Grade 1
UL 1034 Burglary Listing



VON DUPRIN® Electric Strike/Lock Compatibility Information

Chart 1

RIM EXIT DEVICE COMPATIBILITY 6111, 6112, 6113 & 6121 Strikes	
Manufacturer	**Device (panic/fire)**
Von Duprin	22, 33, 35, 88, 98, 99
Magnokrom	Rim
Monarch*	11-R, XX-R, 18-R, 19-R
Precision	810, 1100**
Sargent	2800, 6500, 6800, 8500, 8800, 9500, 9800**, 9898
Yale	1500, 7000, 7200

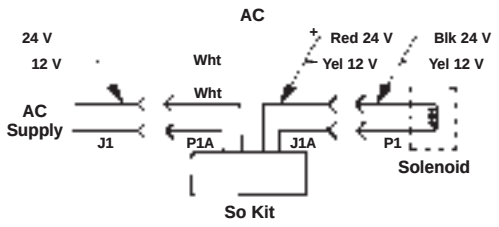
**Deadlocking feature will not properly function, consult factory.

**Panic only.

Chart 2

MORTISE LOCK COMPATIBILITY 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes	
Manufacturer	**Mortise #**
Von Duprin	7500
Adams Rite	4510, 4710
Baldwin	6000
Best	24H, 30H
Corbin	9000
Falcon	M2300, M2500, M2600 M3300, M3500, M3600
Precision	Mortise
Russwin	Mortise
Sargent	7700, 8100, 9000
Schlage	L9000, K30, K40, K50, K60
Yale	7030, 7130, 8600, 8700

Note: Von Duprin cannot guarantee compatibility as other manufacturer's designs may change without notice.



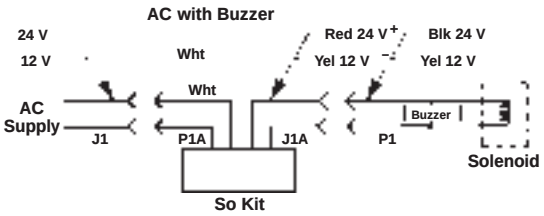


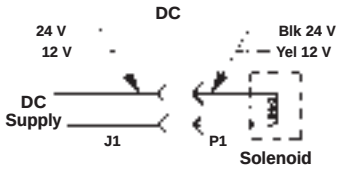
Chart 3

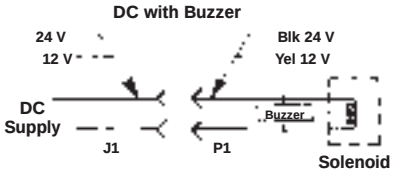
CYLINDRICAL LOCK COMPATIBILITY 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes	
Manufacturer	**Cylindrical**
Baldwin	½″ – ¾″ (13mm – 19mm)
Best	⅜″ – ¾″ (10mm – 19mm)
Corbin	½″ – ¾″ (13mm – 19mm)
Falcon	½″ – ¾″ (13mm – 19mm)
Russwin	½″ – ¾″ (13mm – 19mm)
Sargent	½″ – ¾″ (13mm – 19mm)
Schlage	⅜″ – ¾″ (10mm – 19mm)
Yale	½″ – ¾″ (13mm – 19mm)

Note: Signalling may not function when using 3⁄8" (10mm) throw bolt. Deadlocking cannot be guaranteed with all locks.

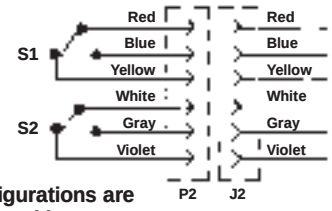
Chart 4

MORTISE LOCK AND 6210 COMPATIBILITY	
Von Duprin	7500
Best	30H
Corbin/Russwin	ML2200, 5000, 9000
Falcon	M100, M200, M300, M400, M500, M600
Sargent	7700, 8100 (Not 7800/8200)
Schlage	L9000
Yale	8700





Optional DS (FSE Shown)
Wiring shown with strike locked and monitor tripper depressed



Different wiring configurations are used depending on Backbox type and FS or FSE.

CROSS REFERENCE

Name	Strike/Lock Mounting	# Doors	Frame Material (SGL Dr) Door Material (DBL Dr)	Faceplate Length	Drop In Replaces Von Duprin:	Drop In Replaces Folger Adam:
6111	Rim Device	Single[1]	All	6″	3031	
6112	Rim Device	Single	All	9″		310-4[4]
6113	Rim Device	Single	All	6″	3011, 3021	
6114	Rim Nightlatch	Single	All	7″		310-5[5]
6121	Rim Device	Double-Closed Back	All	9″		310-4-100[5]
6210	Mortise	Single	HM/Alu	4⅞″		
6211	Mortise or Cylindrical	Single	HM/Alu	4⅞″	3140	712
6211AL	Mortise or Cylindrical	Single	Aluminum	4⅞″		722
6211WF	Mortise or Cylindrical	Single	Wood	4⅞″		732[6]
6212	Mortise or Cylindrical	Single	HM/Alu	6⅜″	3146	
6212WF	Mortise or Cylindrical	Single	Wood	6⅜″		
6213	Mortise or Cylindrical	Single	All[2]	6″	3041, 42, 61, 62	
6214	Mortise or Cylindrical	Single	All[3]	9″		310-2 3/4
6215	Mortise or Cylindrical	Single	All[3]	9″		310-2
6216	Mortise and Deadbolt	Single	HM/Alu	9″		310-3-1
6221	Mortise or Cylindrical	Double-Open Back	All	6″	3071, 72	
6222	Mortise or Cylindrical	Double-Open Back	HM/Alu	9″		310-2 3/4 OB
6223	Mortise or Cylindrical	Double-Closed Back	All	6″	3091, 3092	
6224	Mortise or Cylindrical	Double-Closed Back	HM/Alu	9″		310-2 3/4
6224AL	Mortise or Cylindrical	Double-Closed Back	Aluminum	9″		310-2 RF
6225	Mortise or Cylindrical	Double-Open Back	HM/Alu	9″		310-2 OB
6226	Mortise or Cylindrical	Double-Closed Back	HM/Alu	9″		310-2

[1]Includes double door with mullion.
[2]Recommended on wood frames only if drop in replacement is needed for 3041, 42, 61, 62 on wood frames. Otherwise use 6211WF.
[3]Recommended on wood frames only if drop in replacement is needed for 310-2 3/4, 310-2 on wood frames. Otherwise use 6211WF.
[4]Strike lip area cutout is slightly larger than Folger Adam.
[5]Surface applied strike. Mounting hole locations different from Folger Adam.
[6]Wood frame horizontal solenoid location differs from Folger Adam. May require new frame prep when retrofitting.

FINISHES

US Number	BHMA Number	Description	Von Duprin Number
US3	—	Plated Polished Brass on Stainless Steel	85
US4	—	Plated Dull Brass on Stainless Steel	84
US10	639	Plated Dull Bronze on Stainless Steel	06
US10B	640	Plated Dark Bronze on Stainless Steel	86
US32	629	Stainless Steel, Polished	31
US32D	630	Stainless Steel, Satin	32

WIRE SIZE SELECTION

	Current requirement at 24VDC			
Length of wire run (in feet)	0-.5 Amp	.5-1 Amp	1-2 Amp	2-3 Amp
0-100	18	18	18	18
100-200	18	18	18	16
200-300	18	18	16	14
300-450	18	16	14	12
450-600	18	16	12	NR
600-900	16	14	NR	NR
900-1200	14	12	NR	NR

NR — Not recommended

The EL electric latch retraction feature provides remote unlocking ability to exit devices. The feature is available with 33, 35, 94, 95, 98 and 99 series devices, rim, mortise and vertical rod. A control station operator can flip a switch to retract the latch bolt and immediately change an exit only or latched door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt…for momentary unlocking, or for extended periods of time, in lieu of manual dogging.

EL devices are also useful with automatic door operators, and may be applied to fire-rated devices when under the control of an **automatic fire alarm system**.

This feature does not include the power transfer from door to frame, nor the power supply or control operator. (Refer to page 25 for the EPT-2 electric power transfer, and to page 24 for the PS-873 Power Supply).

Resistance - New Style 1987 and after
GRN-YEL 1.2-2 OHMS
GRN-ORN 135-150 OHMS



Rim device shown — Refer to 33/35, 98/99 or 94/95 Series catalog for complete product information, mounting styles, outside trim, finishes, etc.

Minimum Door Width: 3´ *(914mm)* device–2´6˝ *(762mm)*, 4´ *(1219mm)* device–3´0˝ *(914mm)*

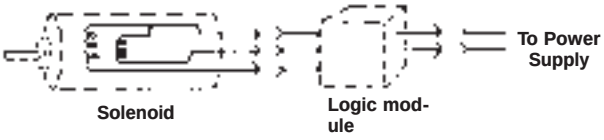
UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware. Consult Device catalog for Fire Rated Models.



Supplied with 3' (914mm) Cable at the hinge side of door.

SPECIFICATIONS	
Solenoid	
Continuous Duty	24VDC
Current Inrush	
(300 milliseconds)	16 amperes
Current Holding	
(33/35 + 98/99)	0.3 ampere
Current Holding (Inpact)	0.5 ampere

Caution: Power supply must be a PS873-2 minimum.



NOTE: Requirements for field wiring between door frame and Power Supply (See page 23). Up to 100 Ft. - 14 gage. Over to 100 Ft. - 12 gage.

The E98/E99 electric rim device provides remote unlocking capabilities. A control station operator can flip a switch to lock or unlock the outside trim. The 24VDC solenoid assembly contains a SPDT (single pole double throw) signal switch to monitor the outside trim (locked or unlocked). A second switch monitors the latchbolt position.

The device is standard as fail safe (FS). When power is off, the trim is unlocked. The trim may then be relocked electrically (by applying power). The device is field convertible for fail secure (FSE) applications.

The outside trim cylinder retracts the latchbolt for mechanical override.

Note: Some Fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.



E98/E99

Rim device shown — Refer to 33/35 or 98/99 Series catalog for complete product information, mounting styles, outside trim, finishes, etc.

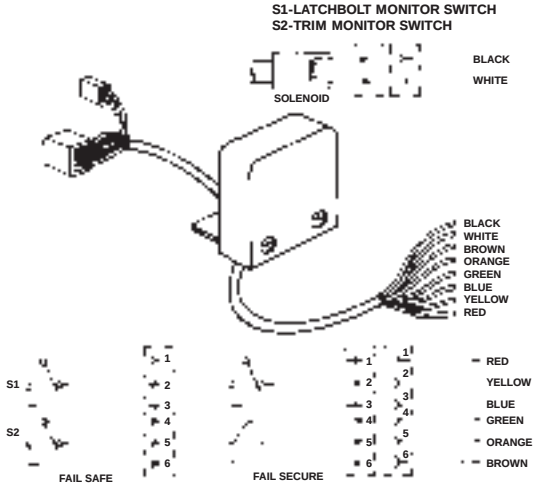
SPECIFICATIONS
Solenoid — 24VDC, 0.25 ampere
Each switch — rated 0.3 ampere, 24VDC

Refer to page 25 for power transfers and page 24 for power supplies.

UL listed FVSR SA163 panic hardware and GXHX R4504(N) fire exit hardware.



Supplied with 3' (914mm) Cable at the hinge side of door.



WIRING SHOWN WITH TRIM LOCKED AND LATCHBOLT EXTENDED

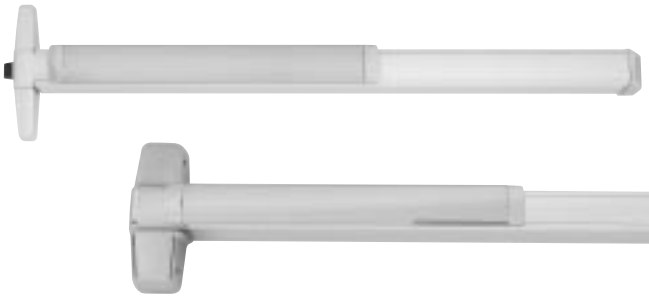
The RX (request to exit) signal switch feature is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch which monitors the touch bar.

The LX (latchbolt monitoring) signal switch monitors both egress and access of an opening. When the latchbolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch which monitors the latchbolt position.

The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Most other electrical functions (EL, E) may be combined with the RX or LX feature.

RX and LX switches are available for factory or field installation.



LX33/LX35
RX33/RX35

LX98/LX99
RX98/RX99

Rim device shown — Refer to 33/35 or 98/99 Series catalog for complete product information, mounting styles, outside trim, finishes, etc.

SPECIFICATIONS

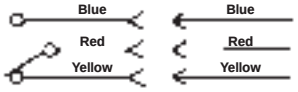
Switch rated 10 amperes @ 24VAC/ DC resistive

When used with inductive or capacitive loads, switch capacity will deteriorate.

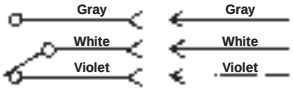
UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.



Supplied with 3′ (914mm) Cable at the hinge side of door.



RX Switch **3**' *(914mm)* **Cord**



LX Switch **3'** *(914mm)* **Cord**

VON DUPRIN® Signal Switch SS

The SS signal switch feature is used to signal the unauthorized use of an opening. Available in rim, mortise and vertical rod, these devices are equipped with two internal SPDT (single pole double throw) switches. One switch monitors both the touch bar and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1¼″ *(32mm)* mortise cylinder (cylinder not furnished) for alarm "bypass" (momentary switch — not time delay).

The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

SS mortise lock devices are furnished with both signal switch device and **SS7500** mortise lock, total of four switches.

The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signalling functions to monitor latch bolt operation and trim locking function.

Emergency Exit Push to open and sound alarm.



SS33/SS35

SS98/SS99

Rim device shown — Refer to 33/35 or 98/99 Series catalog for complete product information, mounting styles, outside trim, finishes, etc.

Minimum Door Width: 3′ *(914mm)* device–2′ 6″ *(762mm)*, 4′ *(1219mm)* device–3′ 0″ *(914mm)*

Actual device length will vary depending on device type, strike being used, stop height, single or double door, etc.

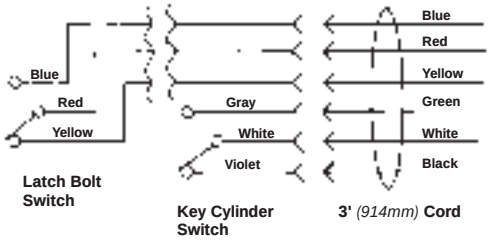
UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.

SPECIFICATIONS

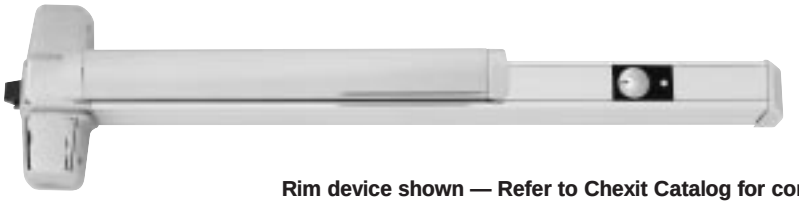
Each switch rated 0.5 ampere 24VDC



Supplied with 3′ (914mm) Cable at the hinge side of door.



VON DUPRIN® Chexit® Controlled Exit Device



Rim device shown — Refer to Chexit Catalog for complete selection information.

Chexit Controlled Exit Device Series CX98 and CX99 are designed for use on Accident Hazard or Fire Exit Hardware applications and combines life safety with the needs of security and meets all requirements of NFPA 101® for "Special Locking Arrangement" and UBC "Special Egress-control Devices".

This exit hardware device will keep an exit door secured for a 15 second period, yet tied into the fire alarm system will release immediately when an alarm condition exists. All controls, auxiliary locking, local alarm, and remote signaling output are self-contained in the Chexit assembly, providing safe, secure and easy to install door control hardware.

Chexit system is ideal for highly controlled areas such as airports, hospitals, government facilities, computer rooms, research and development labs, retail stores, libraries and security facilities.

- Non handed
- Field sizable
- ¾˝ *(19mm)* throw, latchbolt
- Deadlocking

Models are available for rim, mortise lock, surface vertical rod and concealed vertical rod mounting styles. UL listed for use on panic or fire exit doors, 3´ or 4´ wide.

A complete system requires a power supply and a power transfer.

Finishes — US3, US4, US10, US26, US26D, US28, US32D and 313.

Electrical Specifications
Voltage — 24VDC
Current — .4 amperes with 300 millisecond 16 ampere in-rush on arming External alarm contact — 1 ampere @ 24VDC
Fire alarm input, external inhibit input, door position input — setup for normally closed contacts

FEATURES
Request to Exit Switch is built in to detect when someone attempts to exit. Applying less than 15 pounds to the pushpad will cause this switch to start an irreversible alarm cycle.

Nuisance Alarm — If the Nuisance Audible and Nuisance Delay options are set to off, the device will go into alarm as soon as the pushpad is touched. Turning the Nuisance Delay on will require the pushpad to be pressed for 2 seconds before the Chexit goes into alarm which is ideal in public areas. If the Nuisance Audible and Nuisance Delay are both on, the alarm will sound as soon as the pushpad is pressed, but the alarm sequence will stop unless held for 2 seconds or more.

Remote Alarm — A set of relay contacts (rated 1 ampere, 24VDC) are provided to give external alarm indication. These contacts close when the device is in an irreversible alarm condition. These contacts can be used to drive a horn, lamp, or other indicative device.

Key Switch — The Key Switch provides the means to arm, disarm, or reset the Chexit. The key can be removed in either the Arm or Disarm position.

Indicator Lamp — The status of the Chexit can be determined by the Indicator Lamp. When the lamp is off, indicates disarmed and is functioning as a normal exit device. A slow flashing lamp indicates armed. A fast flashing indicator lamp indicates the device is in alarm.

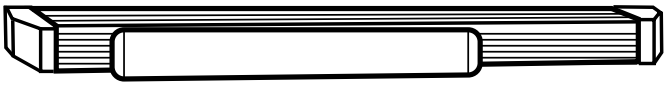
Internal Horn — Whenever the device is in alarm or the pushpad is pressed the internal horn will sound. The volume level of this horn exceeds 85 db at 6 feet.

Door Position Input — An external door position switch can be connected to the Chexit. The door position switch will cause the alarm to sound if the door is not closed when the device is armed.

External Inhibit Input — This optional input is provided to allow remote over-ride of the Chexit in the armed condition. It also allows remote reset of the Chexit in an alarmed condition.

Fire Alarm Input — This input disables the Chexit immediately upon a fire alarm.

Internal Auxiliary Lock —The Auxiliary Lock is engaged when the Chexit is armed. The locking mechanism is specifically designed to hold securely even when the exit device is struck with forceful blows.



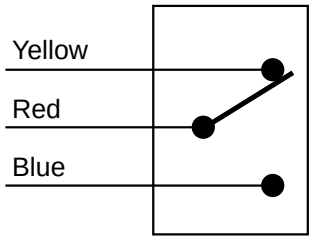
The 330TBSK and 350TBSK bar with active pushpad with monitoring switch or “request to Exit” switch, used to inhibit alarms for authorized exiting. The 330 grooved outer case and the 350 smooth outer case are designed as companion units for Series 33, 35, 98 and 99 exit devices.

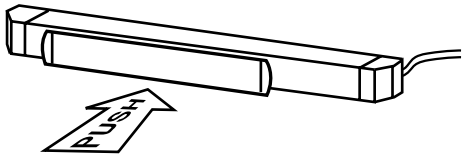
The internal SPDT switch should not be used to control a load, but as a signaling switch.

Two sizes are available 3´ *(914mm)* and 4´ *(1219mm)*; 3´ *(914mm)* unit for door widths 2´6˝ *(762mm)* to 3´ *(914mm)*, and 4´ *(1219mm)* unit for door widths 3´1˝ *(940mm)* to 4´ *(1219mm)*.

Electrical Rating
SPDT 10 ampere @ 24VDC

TBSK330





Supplied with 3´ (914mm) cable at the hinge side of door.

VON DUPRIN® CM993 and PRO993 Exit Trim

The Von Duprin Computer Managed CM993 exit trim is a stand-alone, battery-powered exit trim for use on doors where an exit device is required for egress. The CM993 is designed to be used with Von Duprin 98/99 exit devices for unmatched access control and ease of use. It can be programmed with LockLink™ or LockLink™ Express access control management software. The same software can also manage the Schlage CM Locks and the Locknetics Universal Controllers, which provide intelligent access control for electrified or battery-powered products such as magnets, strikes and cabinet locks.

Multiple users, Multiple access points. Multiple credentials. One way to manage them.

Provides Unmatched Access Control

- Manages up to 1,000 users and provides audit trail for last 1,000 events
- SmartTime feature allows for time functionality:
  - time zones
  - time schedules
  - holiday overide periods
  - first person in
  - credential activation and expiration
- Full-swipe mag stripe card reader for maximum readability and reliability
- Optional audit trail of mechanical key override
- Auto card updating feature which disables a lost or stolen mag stripe card when the reissued card is presented at the lock
- LED status indicators

Easy to Retrofit… Easy to Operate and Architecturally Designed for New Construction

- Directly retrofits existing trim
- Fits doors from 1⅜″ to 2¼″ thick
- Comes with Schlage Everest 1¼″ cylinder, but can adapt to other existing key systems
- LockLink™ software that programs the locks is Windows®-based and menu-driven. It can be operated with minimal training



CM993 Exit Trim



For use with VonDuprin 98/99 Series Exit Devices including Rim, Surface Vertical, Concealed Vertical and Three-Point latching models. (Not for use with mortise devices.)

Conversion to New Card System Not Necessary

- Our exit device trims most likely work with your existing mag card and HID prox cards

Programmable PRO993 Exit Trim for Manual Programming

- Manually program up to 120 keycodes right at the trim
- Similar mechanical features as CM993
- Complements Schlage PRO and Locknetics PRO Series products



VON DUPRIN® How To Order Exit Trim

CM993 – MGK – 06 – LH – KD – 695 – EXT

- **Select Model**
- **Select Access Credential Option**
- **Select Lever**
- **Select Handing**
- **Select Key Cylinder Option**
- **Select Finish**
- **Select Trim Options**

1. Select Model



CM993 Computer managed exit trim

993-DT Dummy trim for inactive leaf

PRO993 Manually programmed exit trim

993-BE Blank escutcheon

2. Select Access Credential Option (CMs only)



KPI
Keypad iButton Reader



IBO
iButton Reader



MGK
Mag Card Reader Keypad iButton Reader



MGI
Mag Card Reader iButton Reader



PXK
HID prox Reader Keypad iButton Reader



PXI
HID prox Reader iButton Reader

3. Select Lever



06 (Standard)



03



17

4. Select Handing

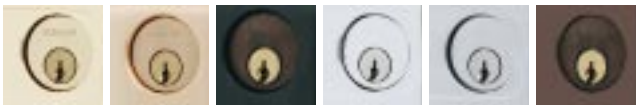
RH Right Hand
LH Left Hand
Note: Handing is field-reversible

5. Select Key Cylinder Option

KD Schlage Everest Cylinder
LC Less Cylinder

Note: Master keyed cylinders order separately

6. Select Finish



605 Bright Brass

612 Satin Bronze

613 Oil Rubbed Bronze

625 Bright Chrome

626 Satin Chrome (Standard)

695 Duranodic Dark Bronze

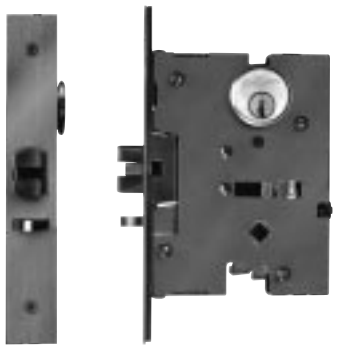
7. Select Trim Options

ATK Audit trail of mechanical key override, includes ATR (Requires computer programming)
T3 ABA Track 3 Mag Card Reader (ABA Track 2 is standard for MGI and MGK Series only)
EXT Mag Card Reader for exterior use (for MGI and MGK Series only)
Door Thickness State door thickness. Available from 1⅜" to 2¾" in ⅛" increments
EG Exterior Gasket for PRO993 only

Select Credentials

IBA iButton (adhesive backed)
IBF iButton on Fob
MAG1 Magnetic Stripe Card – Blank
MAG2 Magnetic Stripe Card – Pre-encoded
PRX1 Prox Card – Standard .070" thick
PRX2 Prox Card – Adhesive backed for photo application, .070" thick
PRX3 Prox Card – ISO – credit card size and thickness, .031" thick
PRX4 Prox Card – Dual Technologies, magnetic stripe and Prox, .031" thick
PF1 Prox Fob

VON DUPRIN® Electric Mortise Lock E7500



UL listed FVSR SA163 panic hardware and GXHX R4504(N) fire exit hardware.

SPECIFICATIONS
Solenoid — 24VDC, .3 ampere, Continuous Duty
Solenoid — 12VDC, .6 ampere, Continuous Duty

The E7500 electric mortise lock for use with 55, 88, 98 and 99 series has all the versatility and advantages of the 7500 mortise lock plus the advantage of being electrically controllable by a remote switching device, an access control or automatic fire alarm system. **The E-7500 controls the locking of the outside trim.** When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking, but require unlocking during a fire emergency.

E7500 features a **signalling function** to monitor the latch bolt and trim locking function.

1¼″ *(32mm)* mortise cylinder with straight cam (not furnished) unlocks trim, trim locks when key is removed. Key retracts latch bolt.

FEATURES

- Field reversible
- 24VDC continuous duty solenoid
- Tamper resistant
- Corrosion resistant
- Internal solenoid

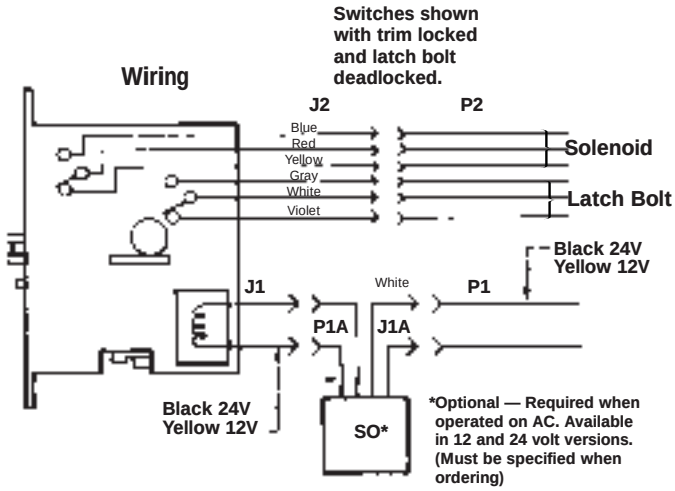
OPTIONS

- Fail safe (locked when energized,
- unlocked when de-energized or during power failure specify with suffix “FS”).
- Fail secure (unlocked when energized — specify with suffix “FSE”). Outside trim automatically relocks, unless held unlocked electrically.
- 24VAC (includes SO option).
- 12VDC or 12VAC (includes SO option).

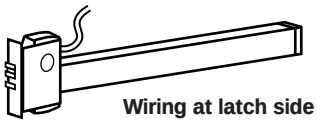
Note: Some Fire codes will require “Fail Safe” (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

TO ORDER

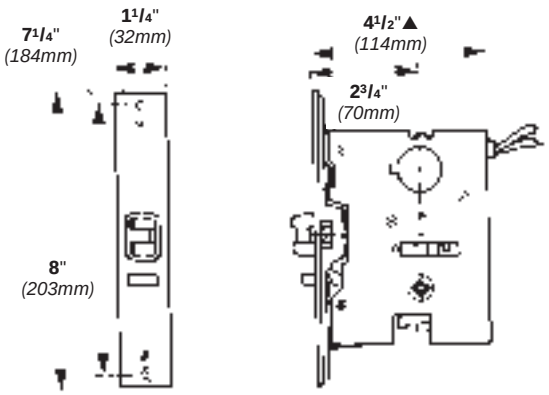
Refer to device catalog section for complete product information (type, function, finish, etc.)



ET500 shown.
SS7500 includes only J2/P2 connectors and wiring



Wiring at latch side of door.



s413/169 (122mm) clearance required for wiring.

SERIES PS861

The series PS861 power supply is designed for electromagnetic locks and electric strikes on single door applications. The output power is field selectable for either 24VDC @ 1 ampere or 12VDC @ 2 ampere. Standard input 120VAC @ 0.6 ampere and 240VAC @ 0.3 ampere available. Terminal block will accept up to 14 gauge stranded wire.



Enclosure is 10″ high x 12½″ wide x 5″ deep* *(254mm x 323mm x 127mm)*, gray with 1 hinged cover and constructed of heavy 19 gauge steel. Six ½″ *(13mm)* knockout holes are provided for conduit connection.

Options include keylock cover and sealed lead acid battery pack. The pair of batteries will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored. Not appropriate for CX or EL devices.

FOUR CONFIGURATIONS

PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861BK	Battery backup and keylock cover

* Standardized enclosure shipping Mid-January, 2003.

SERIES PS873

The series PS873 power supply is designed to operate a wide variety of electrical products. EL panics require 871-2 PCB minimum. The regulated output power is field selectable for either 24VDC @ 2 ampere or 12VDC @ 4 ampere. Standard input 120VAC @ 1.0 ampere or 240VAC @ 0.5 ampere available.

Enclosure is 10″ high x 12½″ wide x 5″ deep *(254mm x 323mm x 127mm)*, gray with a hinged cover and constructed of heavy 19 gauge steel. Five ½″ x ¾″ *(13mm x 19mm)* knockout holes are provided for conduit connection. Terminal block will accept up to 12 gauge wire.

The PS873 can be ordered with three standard options: **Key lock** secures the cover to eliminate tampering and provides safety; **Battery backup** provides two hours backup power at full load during a A.C. power failure; **Fire Alarm** provides input for a normally closed fire alarm contact. When the fire alarm contact is “open”, power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

Eight standard configurations:

PS873	Standard
PS873K	With keylock
PS873B	With battery
PS873BK	With battery and keylock
PS873FA	With fire alarm
PS873K-FA	With keylock and fire alarm
PS873B-FA	With battery and fire alarm
PS873BK-FA	With battery, keylock and fire alarm

The series PS873 is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

Factory or Field Installed Circuit Cards:
871-2, Two Zone controller provides two inputs and two outputs. Use suffix “-2” for factory installed. Will operate one or two EL exit devices.

873-AL, Alarm function monitors 1 or 2 zones and provides alarm output, upon detecting a door in the open position. Delayed alarming is selectable from 5 to 75 seconds. Use suffix “-AL” for factory installed.

873-AO, Auto Operator function coordinates the release of one or two locks and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods; by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by a “RX” type input switch. Use suffix “-AO” for factory installed.



873-SI, Security/Safety Interlock provide interlock function for two zones. When combined with a second 873-SI card, the inter-locking of groups are available in two, three or four zones. Safety interlock is available, consult factory for additional information. Use suffix “-SI” for factory installed.

873-4TD, Four Zone controller with **Time Delay** provides four inputs and four outputs with time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. Use suffix “-4TD” for factory installed.

873-AC, Access Control provides supervision of one zone using an electromagnetic lock. Input signals required are: access control contact, motion detector contact, and motion detector override contact. FA, Fire Alarm option is required. Use suffix “-AC”.

Factory Installed Only Circuit Cards:
873-DE, Delayed Egress function ideal for use with electromagnetic locks, will operate two zones simultaneously. To operate two separate zones, a second 873-DE card is required. UL listed component, when used as part of a Von Duprin delayed egress system. Use suffix “x DE”.

Electrical Power Transfer

Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completed concealed when the door is in the closed position, and are ideally suite for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires.

Door applications; up to 5" butt hinges — 180° swing, 5½" butt hinges — 130° swing, 6" butt hinges — 110° swing, and ¾" offset pivots 180° swing.

FINISHES

SP28 (sprayed aluminum) and SP313 (sprayed duranodic)

SPECIFICATIONS
Housing — 9" x 1$\frac{7}{16}$" x 1½" *(229mm x 37mm x 38mm)*
EPT-2 — Two 18 gauge wires Rating, 24VDC 2 amperes, 16 amperes maximum surge
EPT-10 — Ten 24VDC 1 ampere

TO ORDER, SPECIFY:

1. EPT-2 or EPT-10
2. Finish, SP28 or SP313



UL Listed as "Miscellaneous" Fire Door Accessory" GVUX

Junction Box

High quality NEMA 1, junction boxes provide convenient installation, available in three models. These surface mounted units are 10˝ *(254mm)* high, 10" *(254mm)* wide and 6˝ *(152mm)* deep and includes hinged door with twist turn lock. 24 position terminal strip will accept from 24 to 12 gauge wire.

Five models:

JB7 Junction box only.

JB7-R1 Junction box with SPDT Relay.

JB7-R2 Junction box with DPDT Relay.

JB7-R3 Junction box with DPDT Relay on Make Relay.

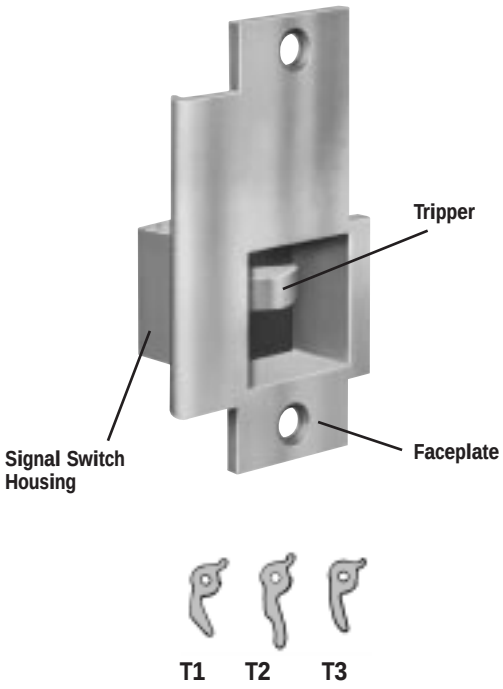
JB7-R4 Junction box with DPDT Relay on Brake Relay.



VON DUPRIN® Monitor Strikes

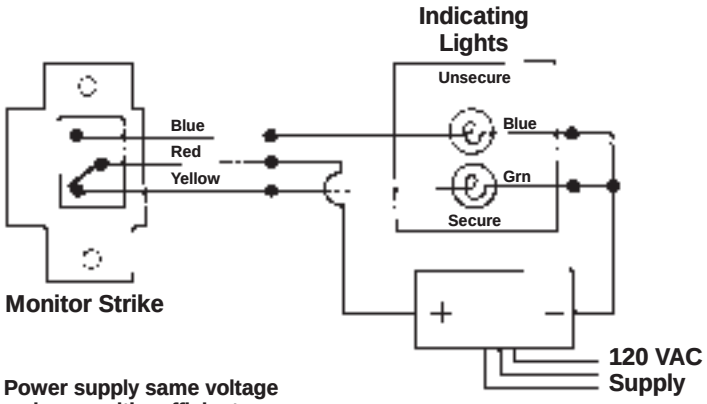
Monitor Strikes replace the standard box strike and add a TRIPPER that is depressed when the latchbolt is fully inserted in the strike. The tripper is stainless steel and activates an electric switch.

SPDT Switch — The monitor switch is supplied SPDT (single pole double throw), rated 24VDC @ 2 amperes (resistive). These contacts are shown in the "secure" position.

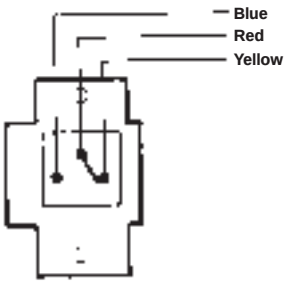


▲Tripper selection is based on the throw and shape of the latch bolt.

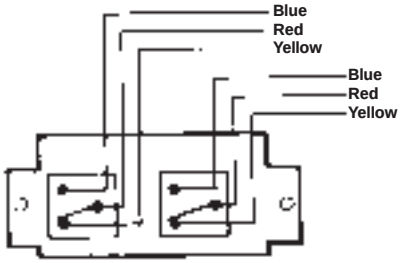
BASIC MONITOR STRIKE CIRCUIT



Power supply same voltage as lamps with sufficient current capabilities



Single
Switch shown in secure position



Double
Switches shown in secure position

FINISHES

US3, US4, US10, US10B, US26, US26D



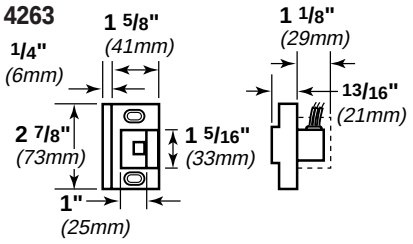
4263

4263

Monitor strike for use with rim or surface vertical rod exit devices. The 4263 is non-handed and features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is drop forged brass. The tripper selection (-T1 or -T3) is based upon the lock to be used with. See Chart below. Two 4263 strikes may be used on 4754 mullion.

COMPATIBILITY CHART	
Von Duprin	
22	T3
2227	T1
33/35	T1
3327/3527	T1
44	T1
55	T1
88	T1
8827	T1
98/99	T3
9827/9927	T1
Monarch	
Rim (3/49 (19mm) throw)	T3
Yale	
1500 (5/89 (16mm) throw)	T1

4263





4268T1 4582

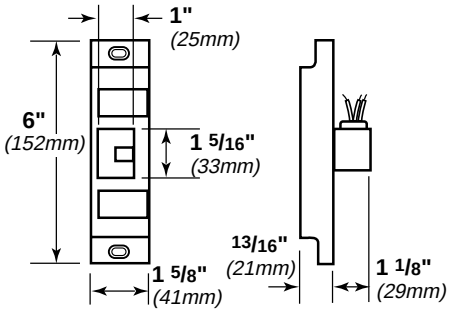
UL listed (GXHX R4504) fire exit hardware.

4268–T1 Single Doors Only - (Not for Mullions)

Monitor strike especially for rim fire devices. The 4268 features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is brass or cast stainless steel. The SPDT signal switch is rated at 24VDC @ 2 amps (resistive) and is actuated by a stainless steel tripper.

COMPATIBILITY CHART
22/22-F
33/35
88/88-F
98/99/98-F/99-F

4268-T1



4582

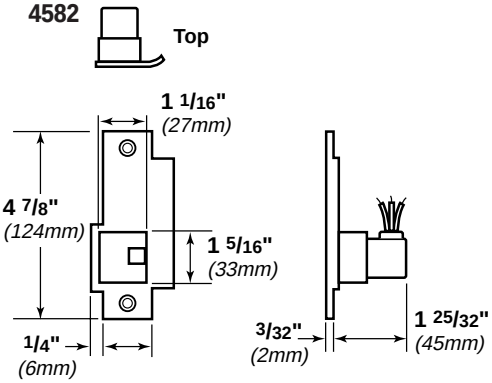
Monitor strike for use with mortise or cylindrical locks on single or pairs of doors with ANSI A115.3 frame cutout (frame modification required). The one piece faceplate and body is constructed of drop forged brass.

The tripper selection (-T1 or -T2) is based upon the lock to be used. See Chart below.

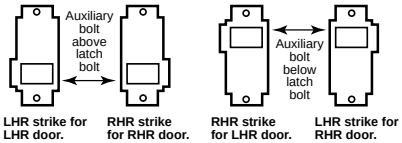
Note: When used with Von Duprin 7500 mortise lock, strike handing is opposite device handing.

COMPATIBILITY CHART		
Von Duprin 7500 ML		T1
Arrow	5/8″ *(16mm)* ML (LR)	T2
Corbin	5/8″ *(16mm)* ML (LR)	T2
Falcon	5/8″ *(16mm)* ML (LR)	T2
Russwin	5/8″ *(16mm)* ML (LR)	T2
	5000 ML (LR)	T2
Schlage	3/4″ *(19mm)* Cyl.	T2
	L90	T2
Yale	5/8″ *(16mm)* ML (LR)	T2

4582



Caution: proper selection of handing required.



4570–T1

For use on single or double door applications with ANSI A115.2 frame cutout (frame modification required). See Chart below.

4570–T1

For use on single or double door applications with ANSI A115.3 frame cutout (frame modification required). See Chart below.

COMPATIBILITY CHART		
Adams-Rite	4510	T1
	8400	T1
Arrow	1/29 (13mm) Cyl.	T1
Best	9/169 (14mm) Cyl.	T1
Corbin	5/89 (16mm) Cyl.	T1
Dexter	7/169 (11mm) Cyl.	T1
Falcon	1/29 (13mm) Cyl.	T1
	9/169 (14mm) Cyl.	T1
Kwikset	1/29 (13mm) Cyl.	T1
Lockwood	1/29 (13mm) Cyl.	T1
Precision	1040 Auto. Flush Bolt	T1★
Russwin	5/89 (16mm) Cyl.	T1
Sargent	1/29 (13mm) Cyl.	T1
Schlage	1/29 (13mm) Cyl.	T1
	5/89 (14mm) Cyl.	T1
Yale	1/29 (13mm) Cyl.	T1

★ Special template required.



4570-T1



4690-1-T2



4670-T1

UL listed (GXHX R4504) fire exit hardware, (4268T1 and 4582 only).

4690–T2

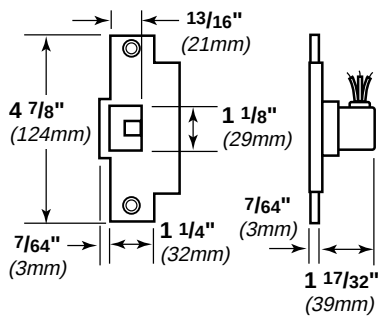
Use on wide stile double door applications.

4690–1–T2

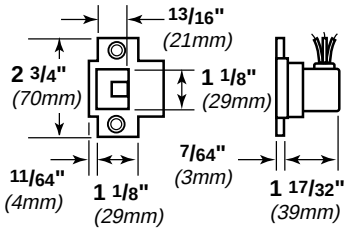
Use on narrow stile double door applications. (Contains two SPDT switches, one for each latchbolt).

COMPATIBILITY CHART			
	4690	**4690-1**	
Von Duprin	3347-F	—	T2
	3347	3347	T2
	9947	—	T2
	9947F	—	T2

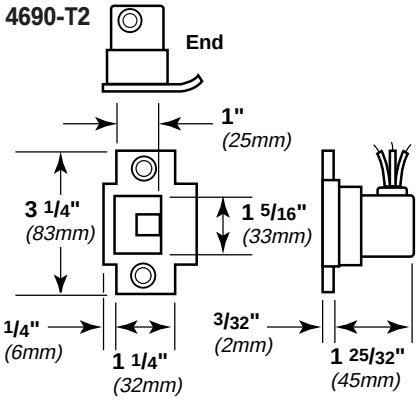
4570-T1 Top



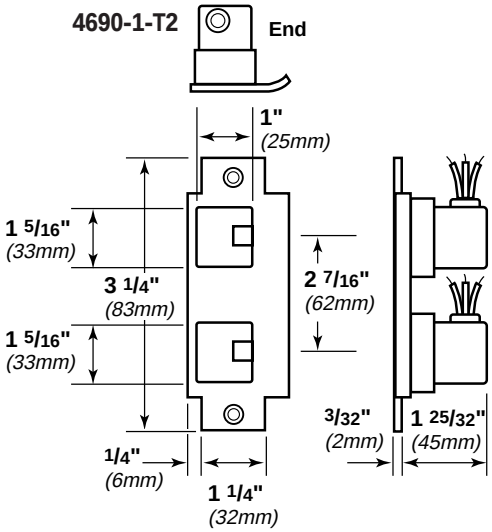
4670 Top



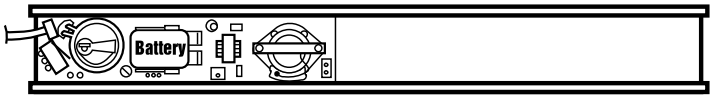
4690-T2 End



4690-1-T2 End



VON DUPRIN® ALK Exit Alarm Kit



The ALK battery alarm kit is a simple yet effective way to monitor the use of an exit device. While still a means of egress, the unit contains an internal horn, when the touchbar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated.

The key switch uses a standard 1¼" *(32mm)* mortise cylinder. The unit operates on one standard 9-volt transistor batteries. When batteries are weak the horn will emit an intermittent signal.

Alarm kits are available with a choice of two switch kits, RX or LX. RX monitors the touchpad is furnished standard, LX optional latchbolt monitoring is recommended for use with surface vertical rod exit devices. Specify ALK-LX.

The ALK can be used with all Von Duprin push pad devices. Choices include 22ALK, 33/99ALK and 35/98ALK.

The ALK includes "EMERGENCY EXIT ONLY. ALARM WILL SOUND" decal for application on door.

PS9 POWER SUPPLY
PS9 power supply provides 9VDC to power ALK alarm kits. The unit will power one or two alarm kits. Included is a 9 volt sealed battery for power backup in case of AC power failure. PS9 must be ordered separate.

Mullions

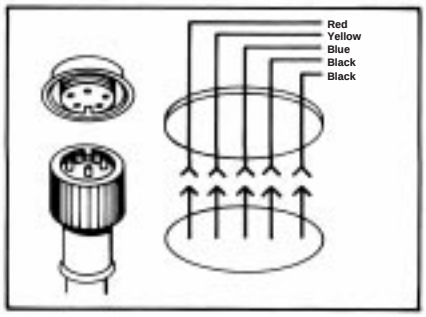
Electrified removable mullions are used with pairs of doors equipped with rim mounted exit devices.
Each includes an electric cable with five conductors wired to a twist-apart plug. The soffit fitting is supplied with a

pre-wired mating socket.

4754 — Prepared to accept two 4263 monitor strikes. Use with all Von Duprin rim panic devices.

Sizes for opening up to:
7´2˝ (2148mm), 8´2˝ *(2489mm)* or *10´2˝ (3099mm)*

WIRING

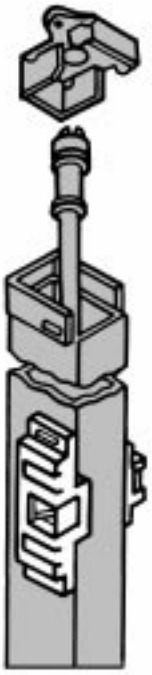


4854 — Prepared to accept 6111 electric strike on one side and 299 strike on other side.

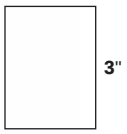
9854 — Prepared to accept 6111 electric strike on one side and 499F strike on other side. Can be used with Von Duprin rim fire exit hardware, 1½ hour rated doors up to 8809. UL listed GXHX R4504.

KR9854 keyed removable option available.

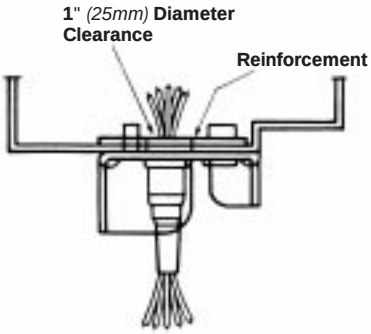
FINISHES
SP28 (Sprayed Aluminum)
SP313 (Sprayed Dark Duranodic)
Sprayed Black

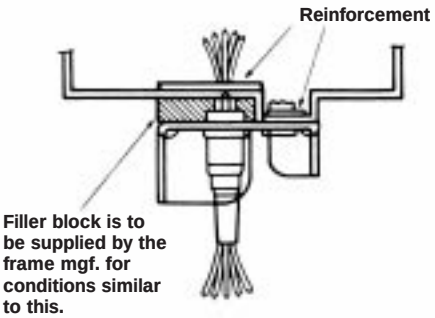


STEEL MULLION DIMENSIONS



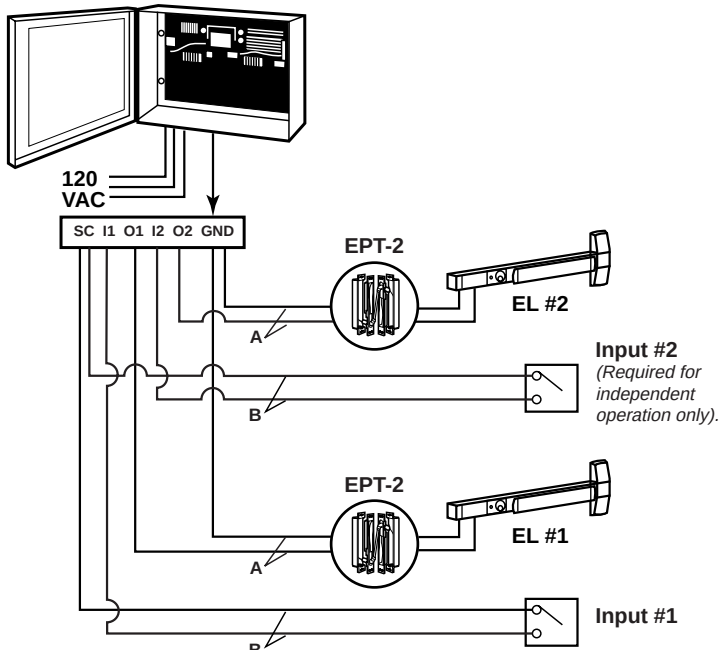
SOFFIT DETAILS





WIRE SIZE SELECTION

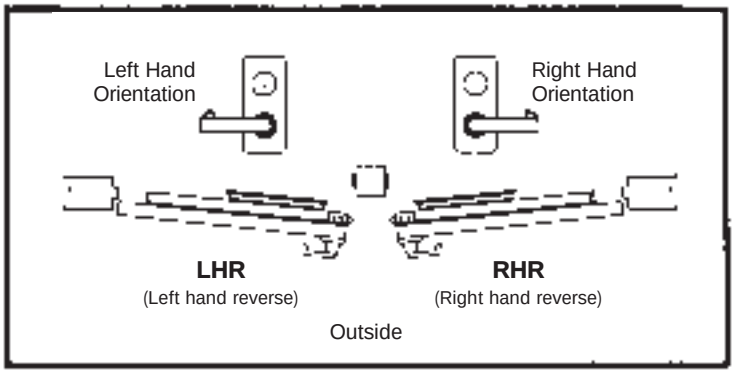
	Current requirement at 24 VDC			
	0–.5 Amp	.5–1 Amp	1–2 Amp	2–3 Amp
0-100 *(0-30)*	18	18	18	18
100-200 *(30-61)*	18	18	18	16
200-300 *(61-91)*	18	18	16	14
300-450 *(91-137)*	18	16	14	12
450-600 *(137-183)*	18	16	12	NR
600-900 *(183-274)*	16	14	NR	NR
900-1.200 *(274-366)*	14	12	NR	NR



WIRE SIZE SELECTION	EL Device w/EPT or Door Loop
0-100 *ft*	14 gauge
0-200 *ft*	12 gauge

WIRE SIZE SELECTION	EL Device w/Electric Hinge/Pivot
0-150 *ft*	12 gauge
0-75 *ft*	14 gauge

HANDING OF DOORS



VON DUPRIN®

DOOR CONTROL AND SECURITY HARDWARE

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2720 Tobey Drive,
Indianapolis, IN 46219
317-613-8944 phone
371-613-8302 fax
www.vonduprin.com
www.irsecurityandsafety.com

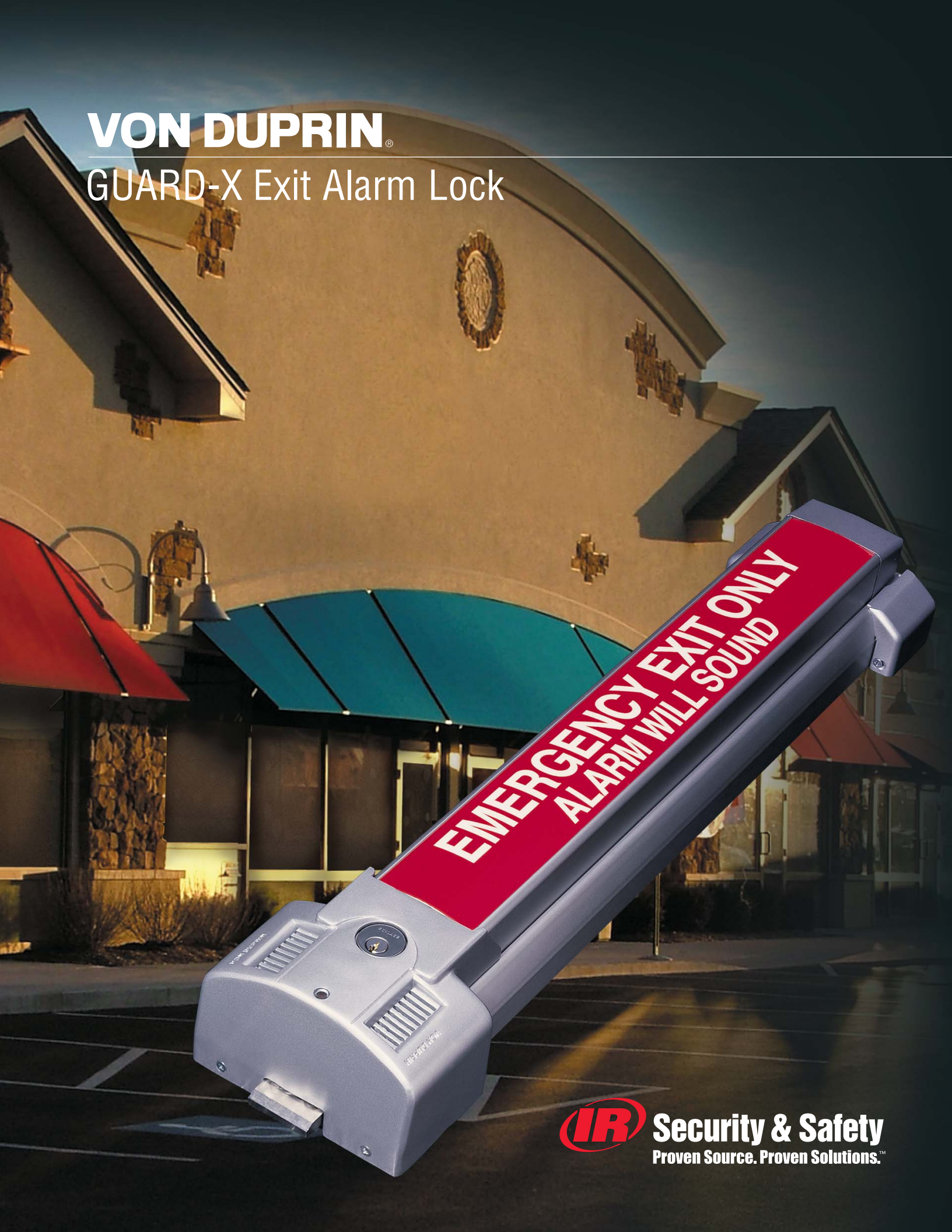
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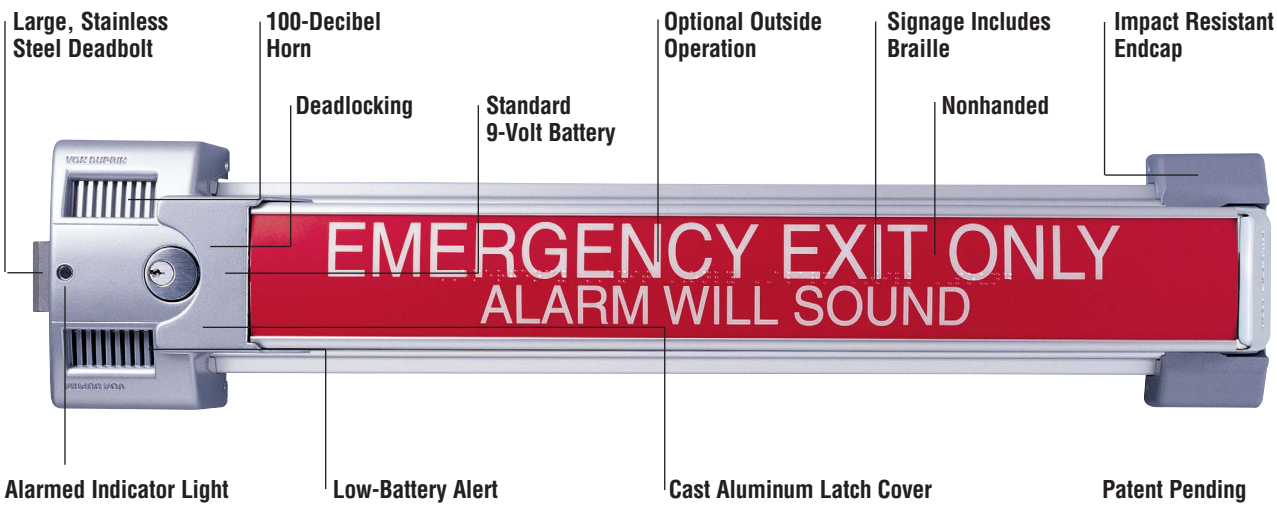
VON DUPRIN®

GUARD-X Exit Alarm Lock



Security & Safety
Proven Source. Proven Solutions.™

GUARD-X



GUARD-X provides secure, alarmed code-compliant protection for secondary exits.

GUARD-X exit alarm lock readily identifies the door on which it is mounted as an emergency exit and secures the opening against unauthorized use. It is ideal for deterring theft in restaurants and retail establishments such as: discount stores, grocery stores, drug stores, clothing stores and sporting goods stores.

Heavy-Duty Design

The new Series 2670 Exist Alarm Lock provides secure protection through a large stainless steel deadbolt, which is 2" x 1/2" *(51mm x 13mm)* and has over a 3/4" *(19mm)* throw. The engagement area into the strike is over 1-1/4 *(32mm)* square inches. The cast aluminum latch case protects the internal mechanism and resists tampering or vandalism from inside the door. This unit has been tested to withstand up to 1600 pounds of static load force against the door.

Security

GUARD-X does not allow relatching or resetting the alarm after an unauthorized exit, other than by an authorized person with a key. A 100-decibel alarm provides a clear, attention-getting warning for an unauthorized exit or attempted exit. The armed indicator light informs the owner that the alarm is armed, and an audible low-battery alert signals the owner to replace the battery when necessary.

Compliance

GUARD-X complies with the NFPA 101® Life Safety Code "the actuating portion of which extends across at least one half of the door leaf." It is UL listed for Panic Exit Hardware (UL305) including the ends of the crossbar or push pad shall curve, guard, or are otherwise designed to prevent catching on the clothing of persons during exit" for use on Emergency Exit applications, and tested in accordance to ANSI A156.3 Grade 1 Panic Hardware (250,000 cycles).

Installation takes just a few minutes with an easy-to-use adhesive back template. The product's nonhanded design means the installer can mount it for either hand by just removing and reversing the "Emergency Exit — Alarm Will Sound" sign built into the device. The standard warning sign is in English with Braille; French and Spanish are available.

Operation and Outside Trim

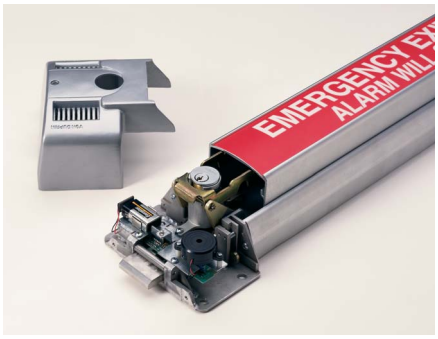
GUARD-X is armed and disarmed by key, using a standard rim cylinder. For owner convenience, it can be operated from the building exterior by a standard rim cylinder, so an authorized user can easily arm and disarm it to enter or exit the building when required. When using exterior operation, a pull trim is recommended, use 210DT or 230DT. Rim cylinders are not furnished and must be ordered separately.

A standard 9-volt battery powers the alarm. An exterior 9-volt power supply is available, Model PT-790, a 120VAC plug-in. When using the external power supply, the 9-volt battery functions as a battery backup during a power failure.

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Large 2″ x 1/2″ stainless steel deadbolt provides maximum security. A Standard rim cylinder is used to arm or disarm lock.



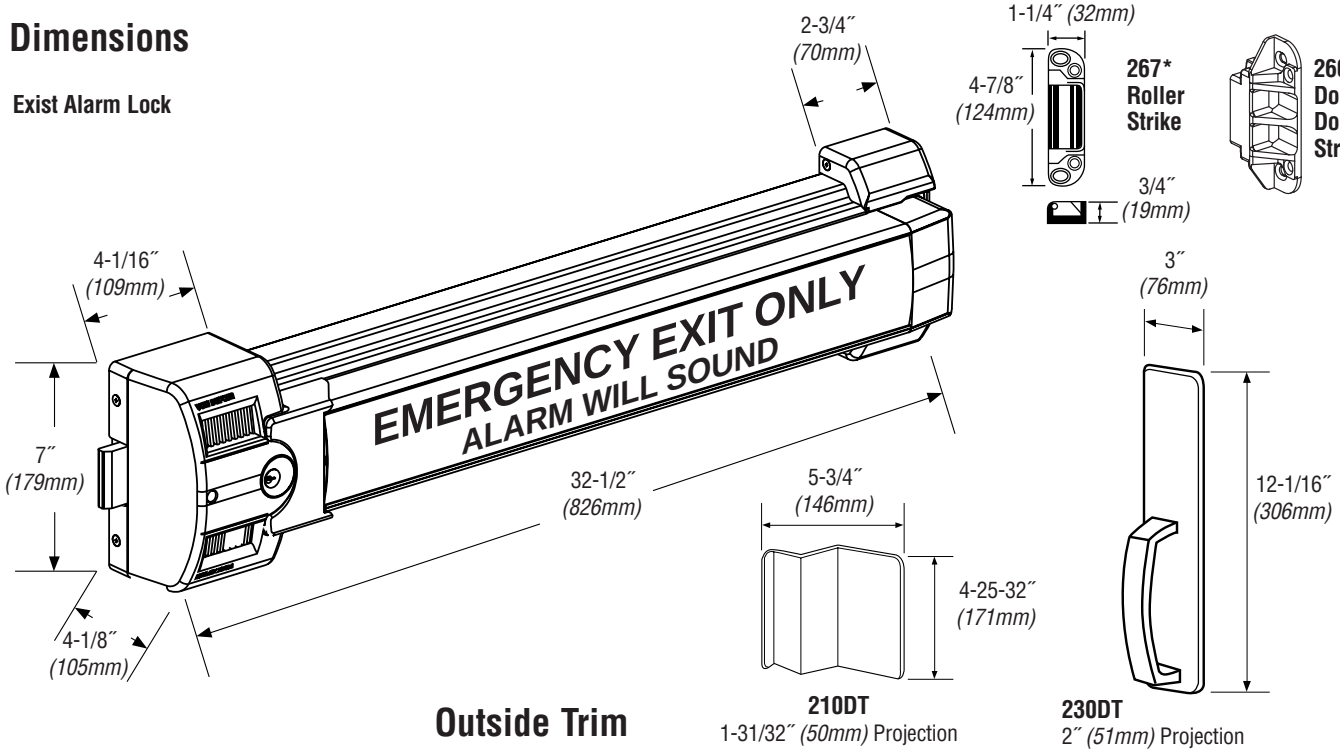
Heavy-duty construction provides long service life.



Three finishes available, including aluminum (US28), anodized duranodic dark bronze (313AN/710) and anodized black (315AN).

Dimensions

Exist Alarm Lock



Outside Trim

210DT
1-31/32″ *(50mm)* Projection

230DT
2″ *(51mm)* Projection

Touchbar height to finished floor	40″ *(1016mm)* at center
Door width range	36″ *(914mm)* to 48″ *(1219mm)*
Touchbar projection —	
neutral	4-1/8″ *(103mm)*
depressed	2-3/4″ *(70mm)*
Latch case housing	7″ *(179mm)* x 4-1/16″ *(103mm)* x 4-1/8″ *(105mm)*
Device length	32-1/2″ *(826mm)*

Finishes — US28 (Aluminum), 313AN (Duranodic Brown), 315AN (Black)

How-To Order

1. Model number 2670 (includes strike, screw pack and battery)
2. Finish — US28, 313AN or 315AN
3. French or Spanish sign, when required. English with Braille is standard.

Accessories

4. Sex nuts and bolts (6 #325) — when required
5. PT790 9-volt External Power Supply — when required
6. 210DT x 050140 or 230DT x 050140 — when required
7. 3216 Rim Cylinder, when required

*2609 double door strike available.

VON DUPRIN®

GUARD-X Exit Alarm Lock

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L5E 1E4, Canada
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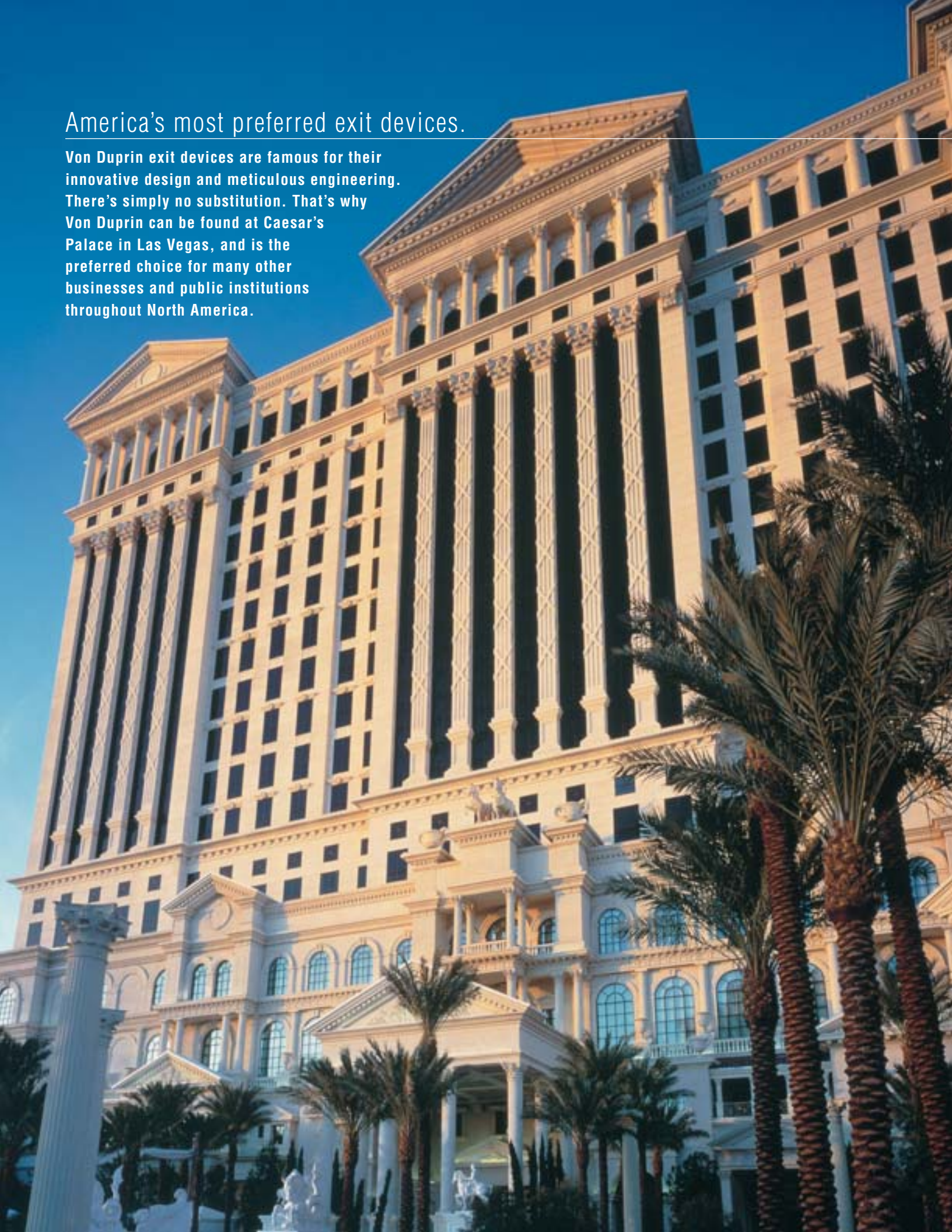
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VON DUPRIN®

INPACT™ 94 AND 95 Series Exit Device



Security & Safety



America's most preferred exit devices.

Von Duprin exit devices are famous for their innovative design and meticulous engineering. There's simply no substitution. That's why Von Duprin can be found at Caesar's Palace in Las Vegas, and is the preferred choice for many other businesses and public institutions throughout North America.



COOPERS ELEMENTARY SCHOOL,
ELM CITY, NC

THE UNQUESTIONED LEADER IN INNOVATION, DESIGN AND DURABILITY.

Von Duprin invented the exit device in 1908. Since that time, there have been many imitators, but no other true innovator. The unique, streamlined Von Duprin INPACT recessed exit device is a perfect example of how creative thinking and great engineering can turn a safety necessity into a stylishly understated fixture.

INPACT is fully integrated within a door and combines a clean, tasteful appearance with Von Duprin's unrivaled standards of durability and performance. The design is compatible with hollow metal doors, including doors manufactured by Steelcraft®, part of the IR Security & Safety product line.

GRACE UNDER PRESSURE.

Available in a variety of finishes, INPACT is UL® approved to meet the strictest building codes. The fact is, UL® testing sets an important standard for the industry. But at Von Duprin, our testing goes well beyond industry standards to make absolutely sure our exit devices will survive in the real world. For this reason, INPACT will withstand repeated abuse and continue to perform, even in the most demanding environments. You can be totally confident that every Von Duprin product you specify or install will exceed your expectations for reliable operation and long-lasting durability.



NASH HEALTH CARE SYSTEMS, NASH GENERAL HOSPITAL, ROCKY MOUNT, NC
Nash General Hospital is among a small percentage of hospitals nationally to receive the honor of Accreditation with Distinction.



THE FULL LINE OF INPACT RECESSED EXIT DEVICES FOR SINGLE AND DOUBLE DOOR APPLICATIONS.



INPACT's low profile design makes it the perfect application for healthcare facilities, schools, corporate campuses, theaters, hotels, stadiums and art museums.

The clean, versatile design blends with an infinite variety of decors. With its wide pushpad, operation is easy for everyone, including people with disabilities. Recessed in the door, INPACT maintains a low-profile which makes it ideal for corridor doors. Minimal projection provides more room for people and equipment to pass. And, when an object such as a cart or dolly collides with the device, the sloped endcaps deflect the object away from the door, protecting the device and the door.



Photograph of INPACT devices on Steelcraft Graintech™ steel doors.

All INPACT exit devices are as durable as they are beautiful. The heavy-duty construction, simple mechanical design and Von Duprin's legendary commitment to quality combine to ensure a long, trouble-free service life.

DESIGN

The streamlined, extruded aluminum pushpad is uniquely designed to exhibit grace under pressure. Built to absorb shock, it takes the wear and tear of even the most demanding high-traffic areas. The sloped, die-cast metal endcaps provide added support, protecting the device and the door against the heaviest impact. The nonhanded configuration simplifies installation and gives superior flexibility in the field.

CONSTRUCTION

Beneath the beautiful architectural design includes a number of durable mechanical components and characteristics. Compression springs are used throughout, and all internal components are coated with zinc dichromate to prevent corrosion. Latchbolts have a self-lubricating coating to reduce friction and wear. Concealed studs and through-bolts, from the inside, fasten the heavy-duty outside trim. Factory steel door prep makes installation simple and fast. Not available on wood doors.

DURABILITY & RELIABLE OPERATION

Devices are tested in accordance to ANSI/BHMA A156.3 Grade 1 by a BHMA certified testing laboratory. INPACT has exceeded one million cycles.



Factory steel door preparation makes installation simple and fast. Photograph of Graintech™ steel door by Steelcraft.



PUSHPAD DESIGN OPTIONS



94 Series - Smooth Pushpad



95 Series - Grooved Pushpad



US3 *Brass, Polished*



US26 *Chrome, Polished*



US28 *Aluminum, Anodized*



US4 *Brass, Satin*



US26D *Chrome, Satin*



313 *Duranodic Dark Bronze*



US10 *Bronze, Satin*

Von Duprin INPACT devices are available in seven attractive finishes to complement any job, as well as the option of a sleek, smooth pushpad and a unique, grooved pushpad. The durable die-cast aluminum endcaps are available in standard black and matching or contrasting powder coated finishes.

STANDARD TRIM

L



Lever LP373L*
Forged brass 1-3/8" (35mm) depth escutcheon. #06 lever is standard. Optional lever designs are available.

** Blank escutcheon "BE" available. Example: LP373L-BE.*

OPTIONAL TRIMS

DT



Dummy Pull 550DT
Heavy aluminum forged brackets with 10" (254mm) stainless steel pullbar.

TL



Thumbturn 376T
Forged brass 7/8" (22mm) escutcheon. It is often used with a 550DT pull trim.

Only available with concealed rod devices.

L x LP230L



Lever LP230L
Cast aluminum 3/4" (19mm) depth escutcheon. #06 lever is standard. #03 lever is optional.

STANDARD LEVER

#06 (Standard)



OPTIONAL LEVERS

#03



#07



#12



#17



Handed Lever

See dimensions page 12.



338



Top Latch



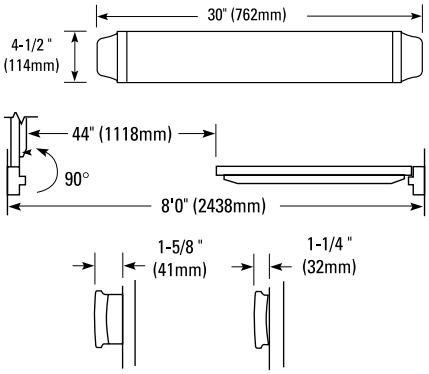
385A



Bottom Latch



DIMENSIONS:



Clear Width - meets 44" clear width requirements on corridor doors serving areas occupied or used by bed patients. Application uses a 2" (51mm) face frame and 1-11/16" (43mm) swing clear hinges.

STANDARD TRIM	NUMBER
Lever	LP373L*
OPTIONAL TRIMS	
Dummy Pull	550DT
Thumbturn	376T
Lever	LP230L
STANDARD LEVER	
	06
OPTIONAL LEVERS	
	03, 07, 12, 17

**Blank Escutcheon "BE" available. Example: LP373L-BE*

DEVICE OPTIONS

Electric latch retraction	pg. 13
Latchbolt monitoring	pg. 13
Less bottom rod	pg. 13

FIRE-RATED AND PANIC CONCEALED VERTICAL ROD DEVICES

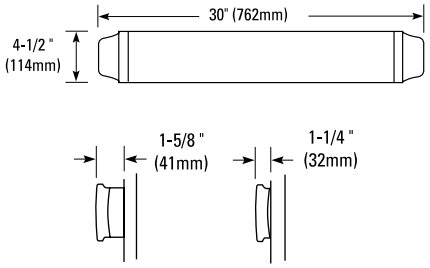
Models **Fire-Rated Models**	9447 and 9547 9447-F and 9547-F
Device Handing	Non-handed
Functions	See Trim Selection Chart on page 12
Finishes	See Finishes Chart on page 14
Styles	Smooth 94 Series and Grooved 95 Series
Pushpad	Extruded anodized aluminum
Endcaps	Die-cast aluminum, sloped design
Strikes	Standard 338 and 385A provided.
Latchbolt	5/8" (16mm) throw. Top and bottom latching are standard. (Optional LBR is available, with no need for floor strike.)
Deadlocking Latchbolt	Standard
Dogging Feature	Hex key dogging
Door Sizes	2'10" (864mm) to 4'0" (1219mm) width 10'0" (3048mm) maximum height 1-3/4" (44mm) thickness
Device Height	4-1/2" (114mm)
Device Length	30" (762mm)
Device Center Line to Finished Floor	39-5/8" (1006mm)
Projection	1-5/8" (41mm) neutral 1-1/4" (32mm) depressed
Fasteners	Included for surface mounting to recessed door prep and through bolting to trim.
ANSI Grade	Certified to ANSI/BHMA A156.3 Grade 1. Tested at one million cycles.
Concealed Vertical Rods	Two-piece adjustable rods, door 6'8" (2032mm) to 8'4" (2540mm). Can be adjusted by removing the latchside endcap.
Optional Extension Rod	Adjustable for doors 8'4" (2540mm) to 10'0" (3048mm).



575



DIMENSIONS:



STANDARD TRIM	NUMBER
Lever	LP373L*
OPTIONAL TRIMS	
Dummy Pull	550DT
Lever	LP230L
STANDARD LEVER	
	06
OPTIONAL LEVERS	
	03, 07, 12, 17

**Blank Escutcheon "BE" available. Example: LP373L-BE*

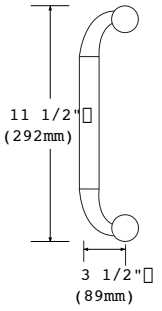
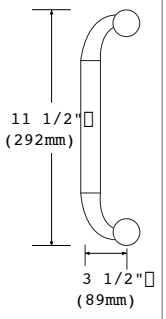
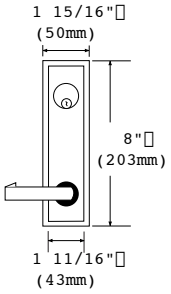
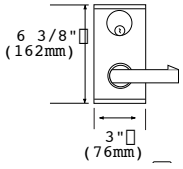
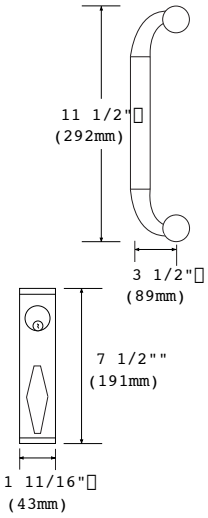
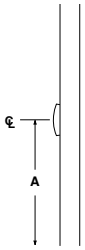
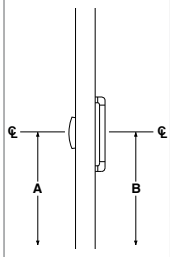
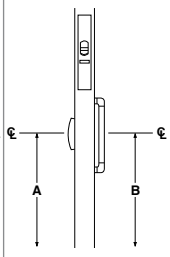
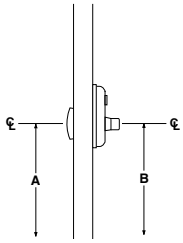
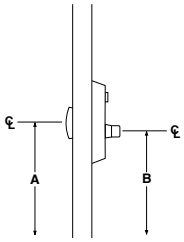
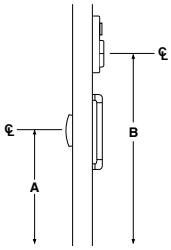
DEVICE OPTIONS

Electric latch retraction	pg. 13
Request to exit	pg. 13
Latchbolt monitoring	pg. 13

FIRE-RATED AND PANIC MORTISE LOCK DEVICES

Models **Fire-Rated Models**	9475 and 9575 9475-F and 9575-F
Device Handing	Non-handed
Functions	See Trim Selection Chart on page 12
Finishes	See Finishes Chart on page 14
Styles	Smooth 94 Series and Grooved 95 Series
Pushpad	Extruded anodized aluminum
Endcaps	Die-cast aluminum, sloped design
Strike	Standard 575
Latchbolt	3/4" anti-friction, field reversible
Deadlocking Latchbolt	Standard
Mortise Lock Center Line to Finished Floor	48-1/8" (1222mm)
Dogging Feature	Hex key dogging
Door Sizes	2'10" (864mm) to 4'0" (1219mm) width 10'0" (3048mm) maximum height 1-3/4" (44mm) thickness
Device Height	4-1/2" (114mm)
Device Length	30" (762mm)
Device Center Line to Finished Floor	39-5/8" (1006mm)
Projection	1-5/8" (41mm) neutral 1-1/4" (32mm) depressed
Fasteners	Included for surface mounting to recessed door prep and through bolting to trim.
ANSI Grade	Certified to ANSI/BHMA A156.3 Grade 1. Tested at one million cycles.

94/95 TRIM SELECTION

Function		01 Exit Only	02 Pull When Dogged	03 Key Retracts Latchbolt	08 Key Locks Lever	08 Key Locks Lever	11 Key Locks Thumbturn
Trim Number and Dimensions			550DT 	550DT x Cylinder 	LP373L 	LP230L 	550DTx376T 
Device/Trim Center Line To Finished Floor							
Projection			2-5/8"	2-5/8"	3-1/8"	2-5/8"	1-13/16" / 2-5/8"
Concealed Vertical Rod	Panic	9447EO	9447DT	—	9447L	9447L	9447TL
		9547EO	9547DT	—	9547L	9547L	9547TL
	Fire	9447EO-F	—	—	9447L-F	9447L-F	9447TL-F
		9547EO-F	—	—	9547L-F	9547L-F	9547TL-F
	Ctr. Line	39-5/8"	**A** 39-5/8"	—	**A** 39-5/8"	**A** 39-5/8"	**A** 39-5/8"
			B 39-5/8"	—	**B** 39-5/8"	**B** 38-5/8"	**B** 53-1/2"
Mortise Lock	Panic	9475EO	9475DT	9475NL	9475L	9475L	—
		9575EO	9575DT	9575NL	9575L	9575L	—
	Fire	9475EO-F	—	9475NL-F	9475L-F	9475L-F	—
		9575EO-F	—	9575NL-F	9575L-F	9575L-F	—
	Ctr. Line	39-5/8"	**A** 39-5/8"	**A** 39-5/8"	**A** 39-5/8"	**A** 39-5/8"	—
			B 39-5/8"	**B** 39-5/8"	**B** 39-5/8"	**B** 38-5/8"	—
Cylinder Type Required	Vert. Rod Dev.	—	—	—	Mortise*	Mortise*	Mortise*
	Mortise Dev.	—	—	Mortise*	Mortise*	Mortise*	—

**See page 13 for cylinder information.*

Electric Latch Retraction

The EL feature allows for the remote latch retraction of exit devices. A control station operator can flip a switch to retract the latchbolt and immediately change an exit door to push/pull operation. A powerful, continuous-duty solenoid retracts the latchbolt either for momentary unlocking or for extended periods of time. The EL feature is an alternative to manual dogging. EL devices are also useful with automatic door operators, and may be applied to fire-rated devices when under the control of an **automatic fire alarm system**. UL approved for Class II circuit applications. This feature does not include the power transfer from door to frame, nor the power supply or control operator.

Solenoid Specifications: Continuous-Duty 24 VDC. Current Inrush 16 Amps. Current Holding (450 milliamps) 0.5 Amps. To Order: Specify prefix EL.

Latchbolt Monitoring

The latchbolt monitor or (LX) feature gives an electronic signal when someone enters an opening from the trim side of the door. The device can then be connected to a security console or may be used as a single door alarm when used with a horn and power supply. The (LX) switch is located inside the device's pushpad on a concealed vertical rod device. For a mortise device, the switch is located inside the mortise lock.

Electrical Ratings: 0.5 Amp., 24 VDC. To Order: Specify prefix LX.

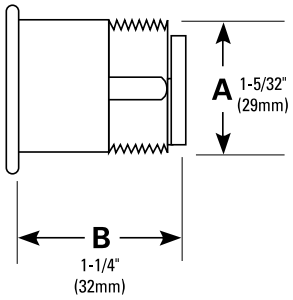
INPACT Accessories

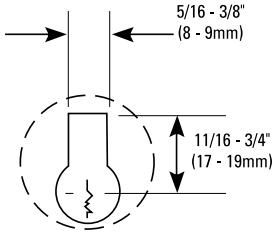
Cylinders are not furnished with device or trim and must be specified when ordering. Mortise lock exit devices and the LP373L, 376T and LP230L use mortise-type cylinders.





Mortise - 3215 (Schlage B502-191 cam)





Less Bottom Rod

The Less Bottom Rod (LBR) option is available for concealed vertical rod devices. In lieu of a bottom rod and latch, a spring-loaded auxiliary bolt is installed in the lower door edge. When exposed to heat, during a fire, the auxiliary latch releases, keeping the doors in alignment and closed. UL listed for 3 hours on double egress doors and for 90 minutes on doors swinging in the same direction. The LBR option is not recommended for exterior door openings or where security is critical.

Request to Exit

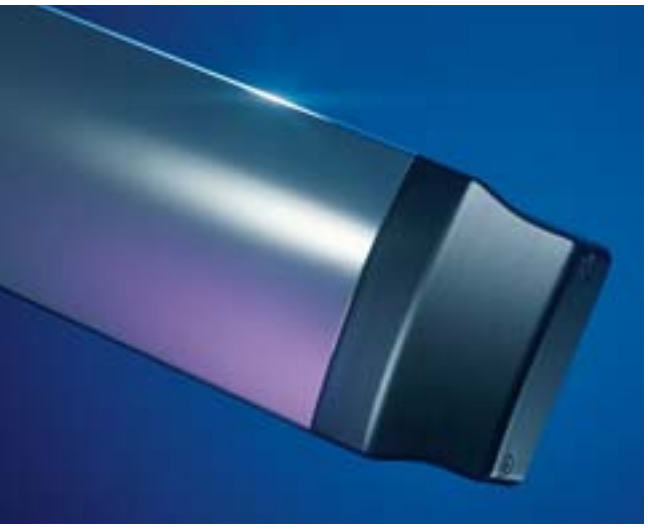
The pushpad monitor or (RX) feature gives an electronic signal when someone exits an opening from the device side of the door. The device can then be connected to a security console or may be used as a single door alarm when used with a horn and power supply. The (RX) feature is available only on mortise devices using the (NL) function. The (RX) switch is located inside the mortise device's pushpad.

Electrical Ratings: 0.5 Amp., 24 VDC. To Order: Specify prefix RX.

UL LISTED—FIRE EXIT HARDWARE LABEL/OPENING SIZE

		Double Doors	
Exit Device	**Single Door**	**Same Direction**	**Double Egress**
9475-F **9575-F**	3 Hour 4' x 10'	—	—
9447-F **9547-F**	—	90 Minute 8' x 10'	3 Hour 8' x 10'
9447LBR-F **9547LBR-F**	—	90 Minute 8' x 10'	3 Hour 8' x 10'

Consult your door manufacturer for maximum listed door height.



FINISHES	US NUMBER	BHMA NUMBER
Brass, Polished	US3	605
Brass, Satin	US4	606
Bronze, Satin	US10	612
Chrome, Polished	US26	625
Chrome, Satin	US26D	626
Aluminum, Anodized	US28	628
Duranodic Dark Bronze	313	710

NOMENCLATURE

EL 94 47 L BE F LBR US3 RHR

EL	Electric Latch Retraction
LX	Latchbolt Monitoring
RX	Request to Exit Switch
94	Series 94
95	Series 95
47	Concealed Vertical Rod (up to 10'0")
75	Mortise Lock Device
DT	Dummy Trim
EO	Exit Only
L	Lever Trim
TL	Thumbturn
BE	Blank Escutcheon
None	Panic Exit Hardware
F	Fire Exit Hardware
None	Top and Bottom Rod
LBR	Less Bottom Rod
Finish	See Finish Chart
Lever Handing	Specify Right-Hand–RHR or Left-Hand–LHR

How-To-Order Information



SINGLE DOOR: 9475 AND 9575

1. Specify model and trim selection.
   Examples: 9475L-F (Fire exit device, mortise lock, smooth pushpad, lever trim)
   9575DT (Panic device, mortise lock, grooved pushpad, dummy trim)
2. Specify finish (see Finishes Chart).
3. Handing required on lever trims. Specify RHR or LHR.
4. Options as desired.
   Example: EL prefix (Electric Latch Retraction) EL9475L-F x US26D x RHR

DOUBLE DOOR: 9447 AND 9547

1. Specify model and trim selection.
   Examples: 9447L-F (Fire exit device, concealed rod, smooth pushpad, lever trim)
   9547DT (Panic device, concealed rod, grooved pushpad, dummy trim)
2. Specify finish (see Finishes Chart).
3. Handing required on lever trims. Specify RHR or LHR.
4. Options as desired.
   Examples: LBR suffix (Less Bottom Rod) 9447-F-LBR x US3 x RHR
   EL prefix (Electric Latch Retraction) EL9547L-F x US26D x RHR

INPACT™ 94 AND 95 Series Exit Devices



Visit Von Duprin on the web

www.vonduprin.com

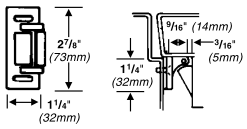
Security & Safety

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317-613-8302 fax
www.vonduprin.com
www.irsecurityandsafety.com
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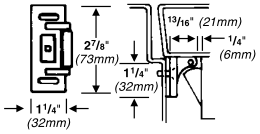
Strikes for rim devices

264



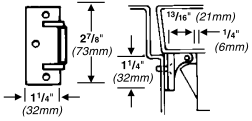
Projection 9/16" (14mm)

299



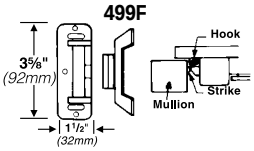
Projection 13/16" (21mm)

299F



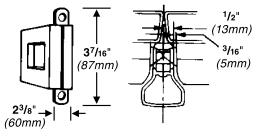
Projection 13/16" (21mm)

499F



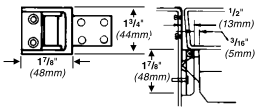
Projection 15/16" (24mm)

1408



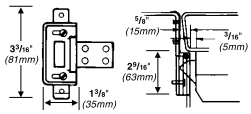
One per pair of doors

1439–Blade Stop



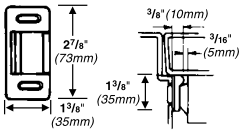
Projection 1/2" (13mm)

1410–Integral Stop



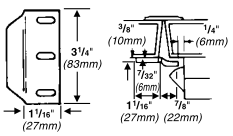
Projection 1/2" (13mm)

1606



Projection 3/8" (10mm)
Panic Devices Only

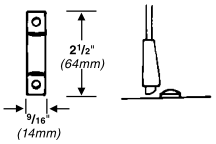
1609



- Requires Coordinator
- For Fire Rated Application, consult factory

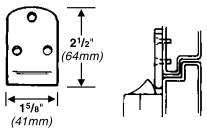
Strikes for vertical rod devices

248L-4



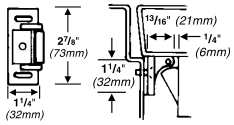
Projection 3/8" (10mm)

260U–Flush Transom Only



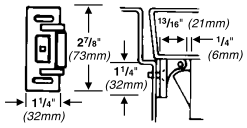
Projection 3/8" (10mm)
For Fire Rated Application, consult factory

299



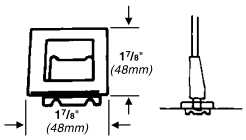
Projection 13/16" (21mm)

299F



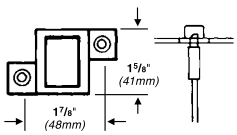
Projection 13/16" (21mm)

304L



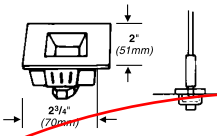
Mortise 13/16" (21mm)

338



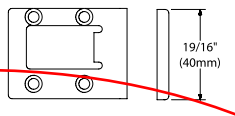
Mortise 5/8" (16mm)

385A



Mortise 2-1/2" (64mm)

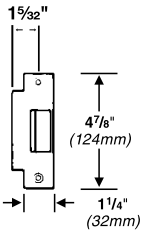
283



For use with WDC devices
when used with wood frames

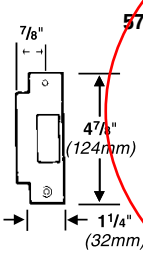
Strikes for mortise lock devices

575



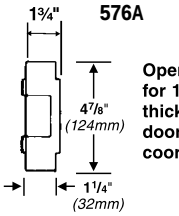
For use on 1 3/4" *(44mm)* or 2 1/4" *(57mm)* Single door and 2 1/4" *(57mm)* double door with coordinator.

575-2



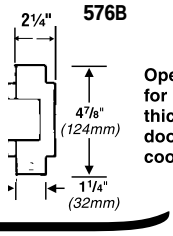
For use on 1 3/4" *(44mm)* thick double door with coordinator and astragal

576A



Open back strike for 1 3/4" *(44mm)* thick double doors without coordinator.

576B

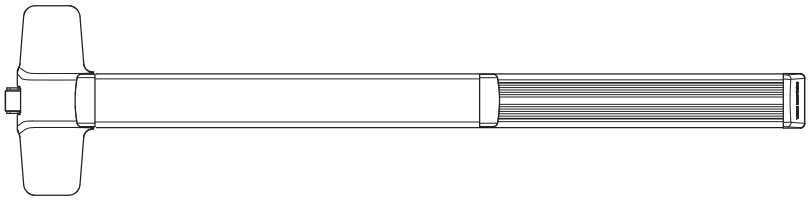


Open back strike for 2 1/4" *(57mm)* thick double doors without coordinator.

- Not for use with astragals
- Not for use on wood doors
- Acceptable for 90 minute pair of hollow metal doors

VON DUPRIN®

Quiet Electric Latch Retraction - QEL



About the product

The QEL option provides electronic control of an exit device and is ideally suited for environments where limited operational noise is desired. The QEL option allows for the electronic unlatching of exit devices for continuous push-pull operation and/or access control and can be activated through a building automation system, access control system or by a control system operator.

The device always provides mechanical egress but can also be tied to an access system to unlatch when a credential is presented or may be held unlatched (dogged) for extended periods to provide free entry. If manual dogging is also required, special center case dogging is available for rim devices, specify SD-QEL. The SD-QEL option is not available on the 9875 or 9975 devices.

QEL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an automatic fire alarm system.

Features and Benefits

- Quiet operation both mechanically and electrically
- On-board installation and troubleshooting diagnostics built into power supply and device
- Automatic calibration – automatically adjusts latch throw and pull
- Pushbar is pulled in electronically for quiter operation when dogged
- Vandal resistant – detects and responds to vandals
- Built-in time delay

System Components / Compatible Products

QEL is an option for 98/99 series (including XP) and 33a/35a Series devices.

The PS873 with the 871-2Q option card are required system components.

A single PS873 power supply will support up to four QEL devices.

The QEL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to Von Duprin catalog for information on EPT-2 power transfer and the PS873 power supply.

Specifications Compliance

- Devices are BHMA Certified to ANSI/BHMA A156.3 (2001) Grade 1 for Exit Devices
- Devices are UL and cUL Listed as "Panic Hardware" (UL 305) and as "Fire Exit Hardware" (UL 10C)
- The PS873 and 871-2Q Board are UL Listed as "Burglary-Resistant Electric Locking Mechanism Accessory" (UL 1034) for Class 2 Circuit Applications.
- The QEL Conversion Kit is UL Classified under "Accessories for Single-Point Locks and Latches and Fire Exit Hardware" (UL 10C)

To order, specify:

- Standard –– Use prefix QEL, *example QEL99L*.
- Special Center Case Dogging –– Use prefix SD-QEL, *example SD-QEL99L*.

About Ingersoll Rand Security Technologies

Ingersoll Rand Security Technologies is part of Ingersoll Rand Company Limited a global provider of products and services that make environments safe secure and productive. Von Duprin is among its industry leading brands with an unparalleled reputation for quality and innovation. Celebrating its 100th year, Von Duprin is credited with introducing the first exit device in 1908 and today continues to provide the industry's best exit devices and trim.

Ingersoll Rand
Security Technologies

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VON DUPRIN®

Introducing a quieter way to make an entrance.

The QEL exit device from Von Duprin.

In theaters and libraries, museums, offices, and hospitals, electrified exit hardware provides reliable access control. But some environments require both access control and extreme quiet. The Von Duprin Quiet Electrified Latch (QEL) exit device is a sleek, reliable device that reduces operational noise down to a whisper. Designed with advanced sensing electronics, the QEL is the next generation of quiet, dependable latch retraction from Von Duprin.

Ingersoll Rand
Security Technologies

Designed for easier, quieter performance.











- The quietest operation both mechanically and electrically
- On-board installation and troubleshooting diagnostics built into power supply and device
- Automatic calibration – adjusts automatically to installation variations
- Pushbar is pulled in electronically to give true electrical dogging functionality
- Retry mode if device does not pull on the first try
- Vandal resistant – detects and responds to vandals
- Built-in time delay

Hospital nurseries and patient rooms, libraries, museums and theaters require electrified hardware that operates at whisper-quiet levels. The new Von Duprin QEL couples the reliability and high performance Von Duprin is known for, with quieter operation that won't disrupt meetings, performances or study. In fact, compared to the competition, Von Duprin offers the quietest overall operation when operated mechanically and electrically.

A choice of finishes and trim.

With a wide range of trim options and finishes, the QEL will fit easily into your building's style and design.



605
Bright Brass



606
Satin Brass



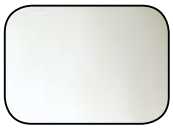
612
Satin Bronze



625
Bright Chrome



626
Satin Chrome



628
Anodized
Aluminum



710
Anodized
Duranodic
(Dark Bronze)

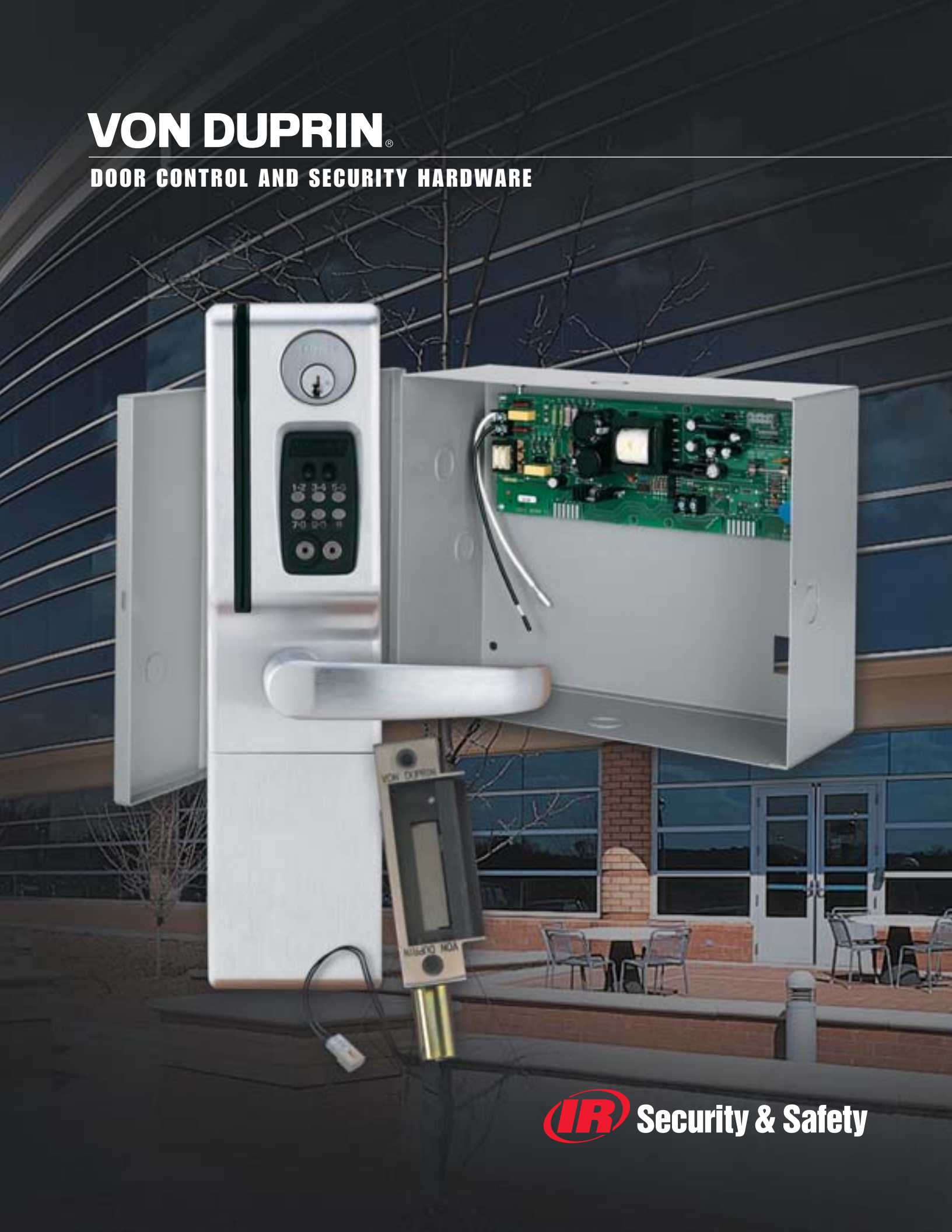
To find out more about the QEL contact your local Ingersoll Rand Security and Safety Consultant or visit **www.vonduprin.com/qel**

Ingersoll Rand
Security Technologies

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VON DUPRIN®

DOOR CONTROL AND SECURITY HARDWARE



Security & Safety

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VON DUPRIN® Series 6000 Electric Strikes

Electric Strikes provide remote release of a locked door. They allow the door to be opened without retracting the latchbolt. This occurs by the releasing of the electric strike lip (sometimes called keeper or gate). When the door closes the beveled latchbolt rides over the lip and falls into the electric strike pocket.

VON DUPRIN SERIES 6000 ELECTRIC STRIKES

Von Duprin is the leading manufacturer of premium, heavy-duty electric strikes known for their reliability, durability and security.

Versatility

- Non-handed
- Furnished 24VDC standard with 12VDC and AC operation optional. 16V solenoids available.
- Furnished fail secure (FSE) standard, with fail safe (FS) optional.
- Strike box is adjustable to compensate for any misalignment of the door or frame.
- Two piece plug connectors are furnished for ease of installation and for removal during strike servicing.

Durability

Developed with Von Duprin's high standards and engineering expertise.

- Heavy-duty stainless steel construction.
- Tested to over 250,000 cycles.
- 1500 lbs. holding strength.
- 70 lbs. impact strength.

To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on page 13. When using a lockset not listed or when retrofitting a strike to an existing application, consult Von Duprin for application assistance.

OPTIONS

AC Operation

SO12 and SO24 are rectifier kits to convert AC voltage to operate the DC solenoids. These kits are field installable and plug in-line to solenoid.

DS and DS-LC — Dual Switch Monitoring (Factory Installed Only)

Dual switch monitoring option has two SPDT contacts, one switch monitors the tripper which is depressed when the latchbolt is inserted into the strike pocket. The second switch monitors the condition of the strike lip, open or closed and locked.

DS is standard, rated 24V, operating range from 2 ampere to 50 milliampere.

DS-LC low volt gold contact switches for use on applications associated with computer control and monitoring, rated 24V, operating range 50 milliampere or below.

Fail Secure — FSE

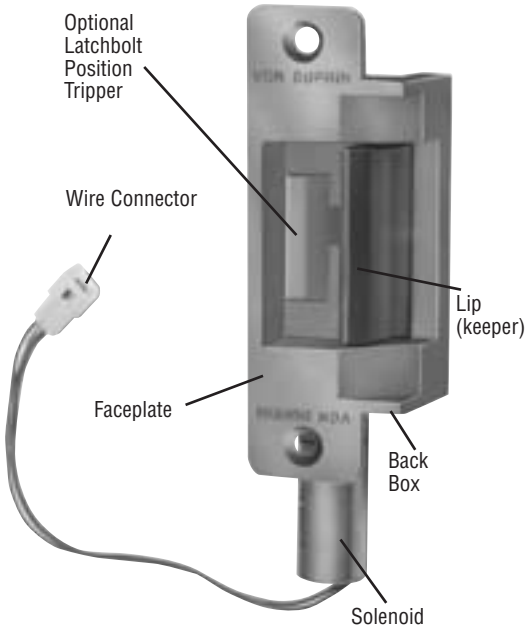
FSE — FAIL-SECURE electric strikes require power to be applied to unlock the strike lip. On loss of power, the strike is locked. Field convertible with parts.

Fail Safe — FS

FS — FAIL-SAFE electric strikes require power to be applied to lock the strike lip. On loss of power, the strike is unlocked. Building codes prohibit the use of fail-safe strikes on labeled openings. Field convertible with parts.

Entry Buzzer — EB

EB — Entry buzzer is available for use with fail-secure strikes. Installed in the frame and in parallel with the circuit, the buzzer will sound when the strike is unlocked.



UL LISTED

UL Listed Burglary-Resistant and Electric Strike for fire doors and frames. A label for single doors and B label for double doors. Strikes meet the requirements of ANSI 156.5, Grade 1, 1992.

TO ORDER, SPECIFY

1. Model number.
2. FS (fail safe, when required).
3. DS or DS-LC (dual switch, when required).
4. Voltage 12VDC or 24VDC
   For 16V Solenoids order separately.
5. SO12 or SO24 (required when using AC)
6. Finish: US3, US4, US10, US10B, US32, US32D.
7. EB (Entry buzzer), FSE only (when required).

Note: Information listed is for use on new applications. On retrofit applications, modification of the frame preparation may be required, consult factory.

VON DUPRIN® 6111, 6112, 6113 Electric Strikes

6111
Electric strike for use with rim exit devices on single doors or double doors with mullion applications (hollow metal, aluminum or wood). Designed to replace Von Duprin 3031. Specify if using with 55 rim devices.

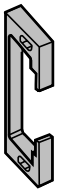
6112
Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood). Designed to replace Folger Adam 310-4, minor frame prep modification required.

6113
Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood), *½˝ (13mm)* stop or greater. Designed to replace Von Duprin 3011 and 3021. Specify if using with 55 rim devices.

FEATURES
- Stainless Steel Construction
- Accepts *¾˝ (19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)

6111/6113 ELECTRIC STRIKE BLADE STOP SHIM 010055-XX



Use on cased opening or blade stop frame. ½" (13mm) aluminum, not for fire door application.



6111



6112



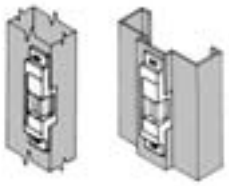
6113

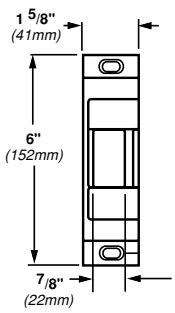
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

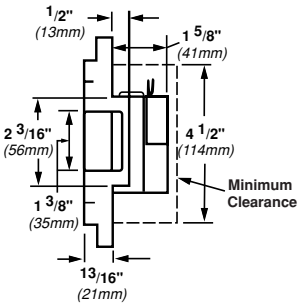
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59311
Listing applies to Von Duprin rim devices.

DIMENSIONS AND CONFIGURATIONS

6111

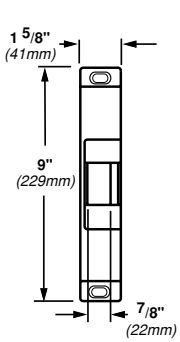


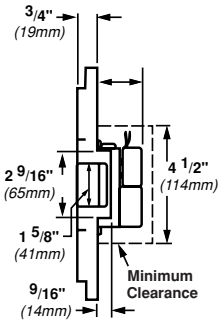




6112

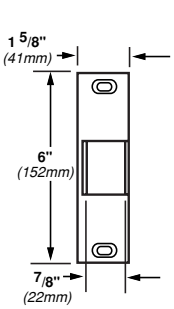


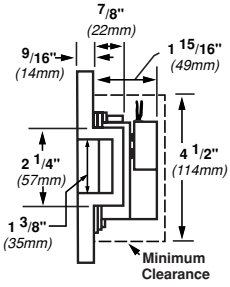




6113







VON DUPRIN® 6114, 6121 Electric Strikes

6114
Electric strike for use with rim night latches having up to ¾″ *(19mm)* bolt throw. Replace Folger Adam 310-5.

6121
Electric strike for use with rim exit devices on double door applications, without mullion (hollow metal, aluminum or wood). Strike mounts on inactive leaf. Replace Folger Adam 310-4-100.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)



6114



6121

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

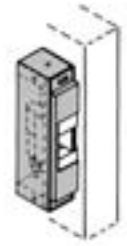
UL listed Burglary Resistant CVXY. ANSI E59371

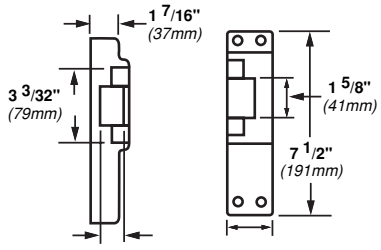
DIMENSIONS AND CONFIGURATIONS

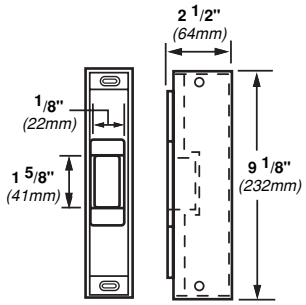
6114



6121







VON DUPRIN® 6210, 6211, 6211AL, 6211WF Electric Strikes

6210
Electric strike for use with mortise locks **without deadbolt** on single door, hollow metal frame applications and using ANSI prep at standard height. Strike pocket inserts are provided to accommodate different manufacturers deadlocking trigger locations.

6211
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal frame applications. Designed to replace Von Duprin 3140 or Folger Adam 712.

6211AL
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, aluminum frame applications. Designed to replace Folger Adam 722.

6211WF
Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications. Designed to replace Folger Adam 732.

FEATURES
- Stainless Steel Construction
- Accepts ¾" *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)



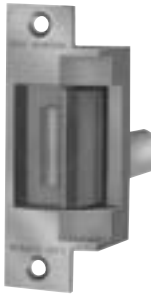
6210



6211



6211AL



6211WF

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

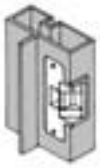
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

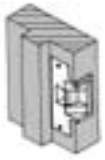
DIMENSIONS AND CONFIGURATIONS

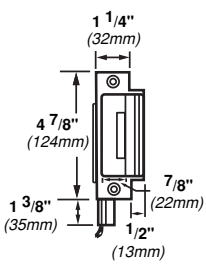
6210 **6211** **6211AL** **6211WF**

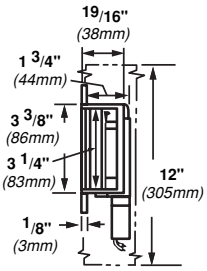


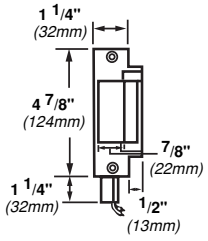


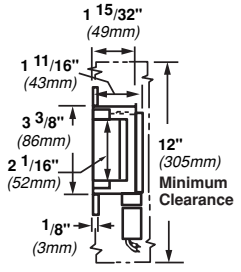


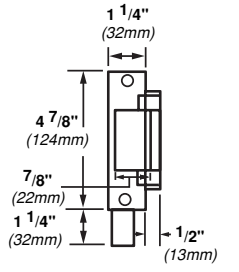


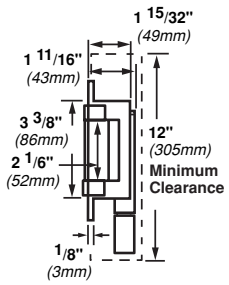


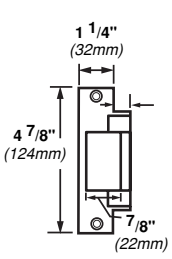


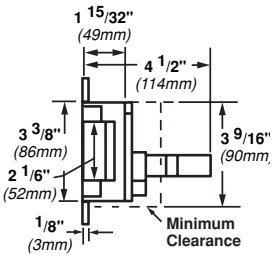












VON DUPRIN® 6212, 6212WF Electric Strikes

6212
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications.
Fits modified ANSI 115.2 cutout.
Designed to replace Von Duprin 3146.

6212WF
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications.

Note: Strike pocket insert is furnished for use with Von Duprin 7500 mortise lock.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)

Strike mounting tabs are furnished for use with modified ANSI 115.2 cutout. Tab can be machine screw mounted or welded in place.


6212


6212WF

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

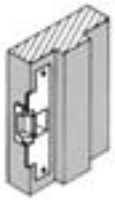
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

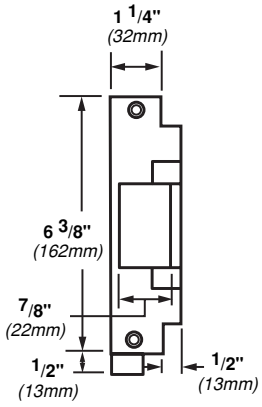
DIMENSIONS AND CONFIGURATIONS

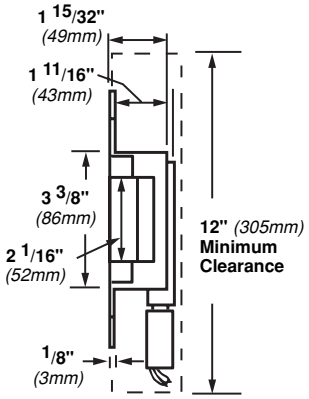
6212

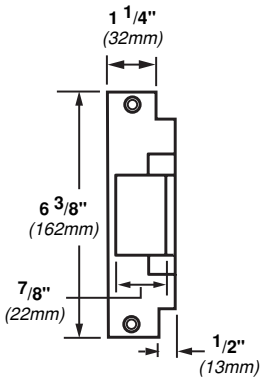


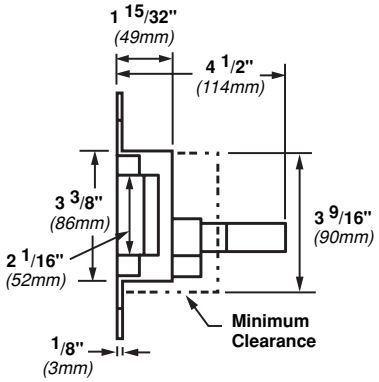
6212WF











VON DUPRIN® 6213, 6214, 6215, 6216 Electric Strikes

6213
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications (includes wood frame on retrofit application). Designed to replace Von Duprin 3041, 3042, 3061 and 3062.

6214
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2¾.

6215
Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2.

6216
Electric strike for use with mortise locks **with deadbolt**, 1″ *(25mm)* throw, on single door, hollow metal, aluminum or wood frame applications. Deadbolt must be manually operated. Designed to replace Folger Adam 310-3-1.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33


6213


6214

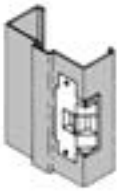

6215

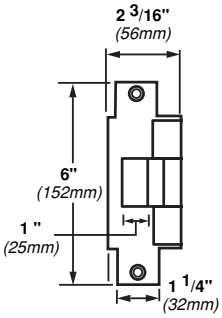

6216

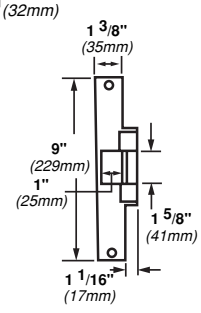
UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

DIMENSIONS AND CONFIGURATIONS

6213

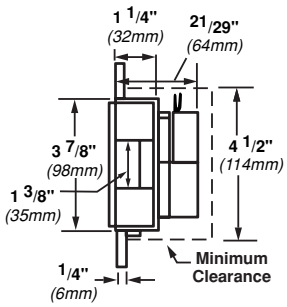


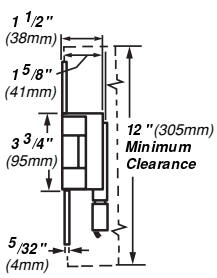




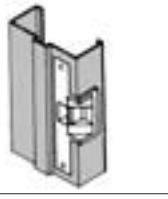
6214

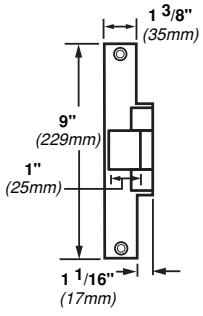


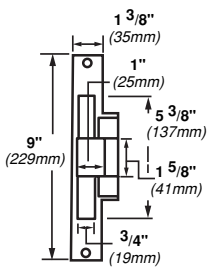




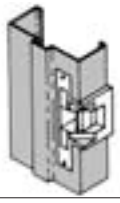
6215

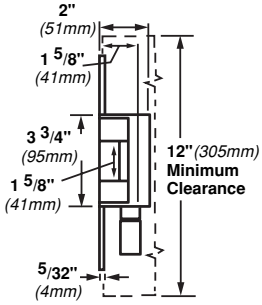


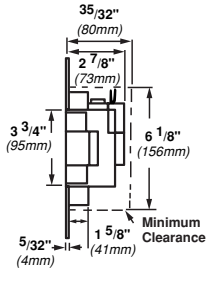




6216







VON DUPRIN® 6221, 6222, 6225 Electric Strikes

6221
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. 4¾″ *(120mm)* minimum stile required. For a concealed vertical rod and mortise device combination, specify "A" backbox. Designed to replace Von Duprin 3071 and 3072.

6222
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-23/4 OB.

6225
Open back electric strike for use with mortise locks without deadbolt or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2 OB.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- EB (Entry Buzzer)

Dual Monitor Switches (DS or DS-LC) are not available on open back strikes.



6221



6222



6225

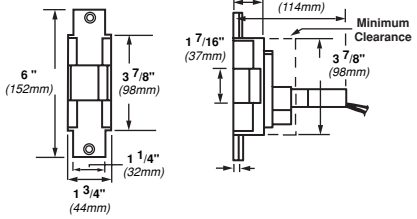
SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

DIMENSIONS AND CONFIGURATIONS

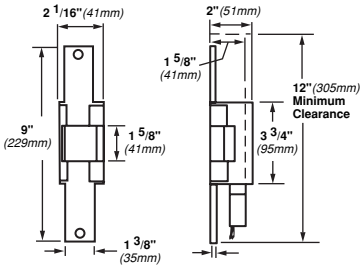
6221





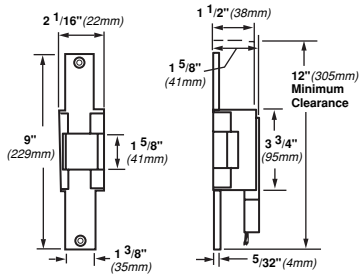
6222





6225





VON DUPRIN® 6223, 6224, 6224AL, 6226 Electrical Strikes

6223
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. 4¾″ *(120mm)* minimum stile required. For a concealed vertical rod and mortise device combination, specify "A" backbox. Designed to replace Von Duprin 3091 and 3092.

6224
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2¾. Not for wood applications.

6224AL
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick aluminum double door applications. Designed to replace Folger Adam 310-2RF.

6226
Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2.
Not for wood applications.

FEATURES
- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Plug Connectors

OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)







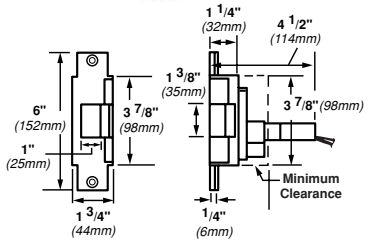


SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	21	82
Watt-seated @ 70°F	7.5	8
Amps-seated @ 70°F	.6	.33
Amps-inrush @ 70°F	.6	.33

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

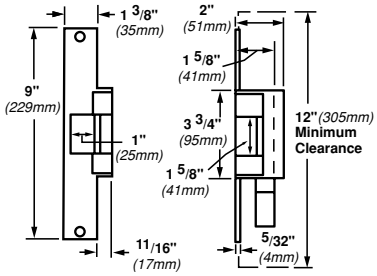
6223





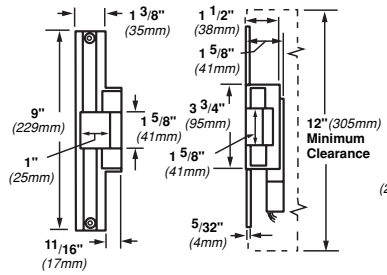
6224





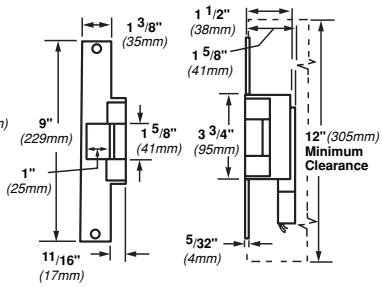
6224AL





6226





VON DUPRIN® 5100 Electric Strike

5100
The Von Duprin 5100 Electric Strike has been designed and manufactured to meet the needs of locksmiths and security professionals. This easy-to-install electric strike was created for medium duty applications, specifically to control traffic flow through interior and exterior openings in retail and commercial environments. And because it's the Von Duprin brand, you know that you can depend on the product quality and performance.

VERSATILITY
Fewer products to inventory and more value for your money.

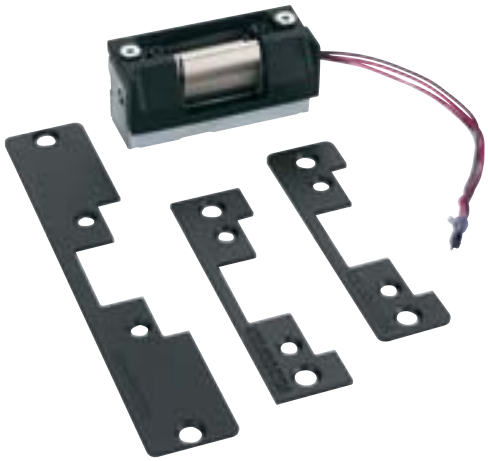
- Three faceplates included for hollow metal, wood or aluminum frames.
- Internal 12/24 dual-voltage solenoid.
- Adjustable keeper.
- Fail-safe/fail-secure selectability.

CONVENIENCE
The right parts in the box means getting the job done right the first time, every time.

- Reduce labor expense.
- Fewer return trips to the job site.

DURABILITY
Developed with Von Duprin's high standards and engineering expertise.

- Heavy-duty construction.
- Tamper resistant design.
- Tested to over one million cycles.
- 1000 lbs. holding strength.
- 70 lbs. impact strength.

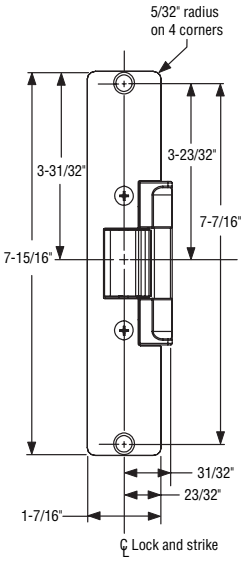


FEATURES
- Three faceplates standard in every box
- 12/24 dual-voltage
- Fail-safe/fail-secure
- Adjustable keeper
- Internal solenoid
- Non-handed
- Backbox depth of 1 11/16"
- Keeper depth of ½"
- Mounting tabs
- Retrofit kit
- Illustrated installation instructions
- Tamper resistant
- 1 year electrical product warranty
- Continuous duty operation
- Heavy duty construction

APPLICATIONS
- Cylindrical locks
- Aluminum dead latch

SPECIFICATIONS	12V	24V
Resistance in Ohms±10% @ 70°F	32	128
Power (watts)	4.5	4.5
Current (amps)	.38	.19

All specs ± 10% @ 77°F/25°C
ANSI/BHMA 156.5 Grade 1 (1992)
UL 1034 Burglary Listing



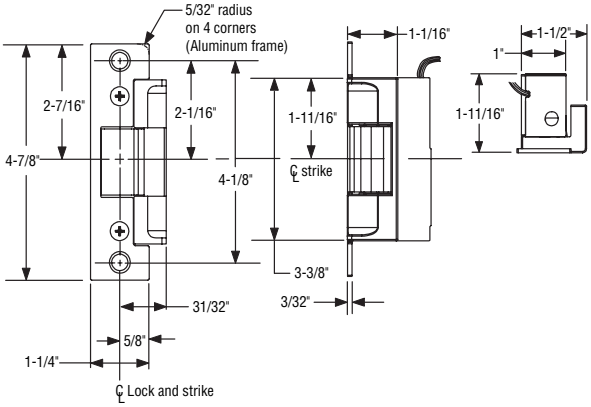


Chart 1

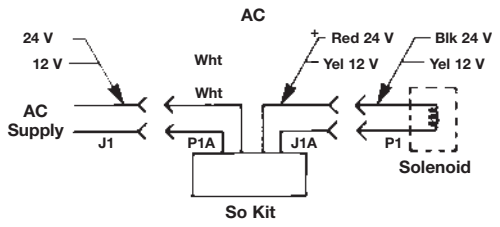
RIM EXIT DEVICE COMPATIBILITY 6111, 6112, 6113 & 6121 Strikes	
Manufacturer	**Device (panic/fire)**
Von Duprin	22, 33A, 35A, *55, 88, 98, 99
Magnokrom	Rim
Monarch**	11-R, XX-R, 18-R, 19-R
Precision	810, 1100***
Sargent	2800, 6500, 6800, 8500, 8800, 9500, 9800***, 9898
Yale	1500, 7000, 7200

* Strike must be modified, specify when using with a 55 rim device.
** Deadlocking feature will not properly function, consult factory.
***Panic only.

Chart 2

MORTISE LOCK COMPATIBILITY 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes	
Manufacturer	**Mortise #**
Von Duprin	7500
Adams Rite	4510, 4710
Baldwin	6000
Best	24H, 30H
Corbin	9000
Falcon	M2300, M2500, M2600 M3300, M3500, M3600
Precision	Mortise
Russwin	Mortise
Sargent	7700, 8100, 9000
Schlage	L9000, K30, K40, K50, K60
Yale	7030, 7130, 8600, 8700

Note: Von Duprin cannot guarantee compatibility as other manufacturer's designs may change without notice.



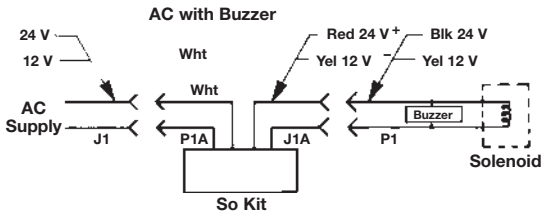


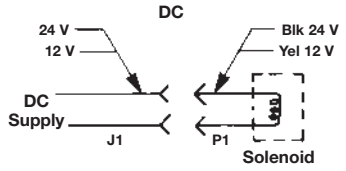
Chart 3

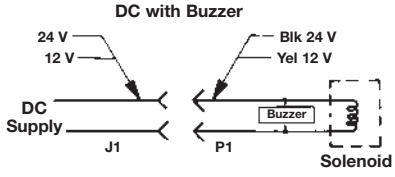
CYLINDRICAL LOCK COMPATIBILITY 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes	
Manufacturer	**Cylindrical**
Baldwin	½″ – ¾″ (13mm – 19mm)
Best	⅜″ – ¾″ (10mm – 19mm)
Corbin	½″ – ¾″ (13mm – 19mm)
Falcon	½″ – ¾″ (13mm – 19mm)
Russwin	½″ – ¾″ (13mm – 19mm)
Sargent	½″ – ¾″ (13mm – 19mm)
Schlage	⅜″ – ¾″ (10mm – 19mm)
Yale	½″ – ¾″ (13mm – 19mm)

Note: Signalling may not function when using 3⁄8" (10mm) throw bolt. Deadlocking cannot be guaranteed with all locks.

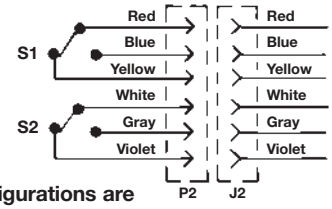
Chart 4

MORTISE LOCK AND 6210 COMPATIBILITY	
Von Duprin	7500
Best	30H
Corbin/Russwin	ML2200, 5000, 9000
Falcon	M100, M200, M300, M400, M500, M600
Sargent	7700, 8100 (Not 7800/8200)
Schlage	L9000
Yale	8700





Optional DS (FSE Shown)
Wiring shown with strike locked and monitor tripper depressed



Different wiring configurations are used depending on Backbox type and FS or FSE.

CROSS REFERENCE

Name	Strike/Lock Mounting	# Doors	Frame Material (SGL Dr) Door Material (DBL Dr)	Faceplate Length	Drop In Replaces Von Duprin:	Drop In Replaces Folger Adam:
6111	Rim Device	Single[1]	All	6″	3031	
6112	Rim Device	Single	All	9″		310-4[4]
6113	Rim Device	Single	All	6″	3011, 3021	
6114	Rim Nightlatch	Single	All	7″		310-5[5]
6121	Rim Device	Double-Closed Back	All	9″		310-4-100[5]
6210	Mortise	Single	HM/Alu	4⅞″		
6211	Mortise or Cylindrical	Single	HM/Alu	4⅞″	3140	712
6211AL	Mortise or Cylindrical	Single	Aluminum	4⅞″		722
6211WF	Mortise or Cylindrical	Single	Wood	4⅞″		732[6]
6212	Mortise or Cylindrical	Single	HM/Alu	6⅜″	3146	
6212WF	Mortise or Cylindrical	Single	Wood	6⅜″		
6213	Mortise or Cylindrical	Single	All[2]	6″	3041, 42, 61, 62	
6214	Mortise or Cylindrical	Single	All[3]	9″		310-2 3/4
6215	Mortise or Cylindrical	Single	All[3]	9″		310-2
6216	Mortise and Deadbolt	Single	HM/Alu	9″		310-3-1
6221	Mortise or Cylindrical	Double-Open Back	All	6″	3071, 72	
6222	Mortise or Cylindrical	Double-Open Back	HM/Alu	9″		310-2 3/4 OB
6223	Mortise or Cylindrical	Double-Closed Back	All	6″	3091, 3092	
6224	Mortise or Cylindrical	Double-Closed Back	HM/Alu	9″		310-2 3/4
6224AL	Mortise or Cylindrical	Double-Closed Back	Aluminum	9″		310-2 RF
6225	Mortise or Cylindrical	Double-Open Back	HM/Alu	9″		310-2 OB
6226	Mortise or Cylindrical	Double-Closed Back	HM/Alu	9″		310-2

[1]Includes double door with mullion.
[2]Recommended on wood frames only if drop in replacement is needed for 3041, 42, 61, 62 on wood frames. Otherwise use 6211WF.
[3]Recommended on wood frames only if drop in replacement is needed for 310-2 3/4, 310-2 on wood frames. Otherwise use 6211WF.
[4]Strike lip area cutout is slightly larger than Folger Adam.
[5]Surface applied strike. Mounting hole locations different from Folger Adam.
[6]Wood frame horizontal solenoid location differs from Folger Adam. May require frame prep modification when retrofitting.

FINISHES

US Number	BHMA Number	Description	Von Duprin Number
US3	—	Plated Polished Brass on Stainless Steel	85
US4	—	Plated Dull Brass on Stainless Steel	84
US10	639	Plated Dull Bronze on Stainless Steel	06
US10B	640	Plated Dark Bronze on Stainless Steel	86
US32	629	Stainless Steel, Polished	31
US32D	630	Stainless Steel, Satin	32

WIRE SIZE SELECTION

Current requirement at 24VDC

Length of wire run (in feet)	0-.5 Amp	.5-1 Amp	1-2 Amp	2-3 Amp
0-100	18	18	18	18
100-200	18	18	18	16
200-300	18	18	16	14
300-450	18	16	14	12
450-600	18	16	12	NR
600-900	16	14	NR	NR
900-1200	14	12	NR	NR

NR — Not recommended

VON DUPRIN® E996L Electrified Breakaway™ Lever Trim

E996L electrified Breakaway lever trim provides remote locking and unlocking capabilities while incorporating the patented Breakaway trim design.

The 24VDC solenoid can be energized from a distant controller, thus allowing access control of the opening. The control of stairwells in high-rise buildings is a common application for this trim.

When electrically unlocked the unit operates as a normal lever trim. When electrically locked, the lever feels locked, but when more than 35 pounds of torque pressure is applied, the Breakaway lever feature engages.

The E996L is provided standard in a fail safe (FS) condition, but can be field converted to a fail secure (FSE) where allowed. The trim can be ordered with a device, added to an existing 98/99 series device application, or a conversion kit can be added to an existing 996L Breakaway lever trim. On new construction applications, the E996L trim will require less door prep.

The E996L is available with a blank escutcheon (BE) function, or with a cylinder for night latch function.

The E996L electrified trim replaces the current "E" electric feature on 98/99 series rim devices. Consult factory for requirements.

To Order, Specify:

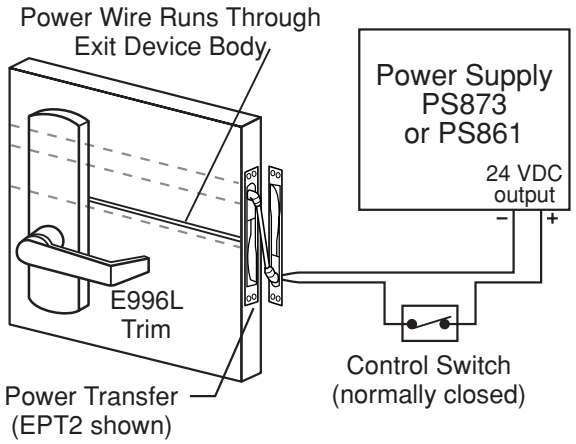
1. Use "E" prefix, example E996L.
   When ordering with device specify trim series with "E" prefix, example 9927L-BE 3´ US26D E996.
2. Device type, R/V (rim/surface or concealed vertical rod) or M (mortise).
3. RHR is furnished standard if not specified.
   Field reversible.
4. Lever style (06 lever is furnished standard).
5. Finish: US3, US4, US10, US10B, SP313, US26, US26D, SPBLK, US15



SPECIFICATIONS
Solenoid – Continuous Duty 24VDC
Solenoid Draw – 0.22 amp

E996L ELECTRICAL WIRING

- Power input for E996L is 24VDC
- Two wires on trim are non-polarized (18 AWG minimum)



LEVER DESIGN OPTIONS



#01 **#02** **#03** **#05** **#06 Standard**



#07 **#12 Handed** **#16** **#17** **#18**

EL feature provides remote latch retraction ability to exit devices. The feature is available with 33A, 35A, 94, 95, 98 and 99 series rim, mortise and vertical rod devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit only or latched door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt for momentary unlocking, or for extended periods of time, in lieu of manual dogging.

There are three dogging options available with the EL feature.

- EL - electric latch retraction with no manual dogging.
- HD-EL – electric latch retraction with manual hex key dogging.
- SD-EL – electric latch retraction with special center case cylinder dogging (not available on the 33A/35A series or 98/9975 devices).

EL devices are also useful with automatic door operators, and may be applied to fire-rated devices when under the control of an **automatic fire alarm system**.

UL approved for Class II circuit applications.

The PS873 with the 871-2 is the minimum option card required. Other option cards are available for other functions, see PS873 power supply on page 28 for additional information.

The EL feature does not include the power transfer from door to frame or the power supply or control operator. Refer to page 29 for the EPT-2 electric power transfer, and to page 28 for the PS-873 power supply.

See page 34 for wire size selection.

Retro-fit kits available to add the EL feature to non-EL devices.

To Order, Specify:

Prefix EL standard
HD-EL hex key dogging
SD-EL special center case dogging

Example HD-EL99L

Solenoid Resistance - New Style 1987 and after
GRN-YEL 1.2-2 OHMS
GRN-ORN 16-150 OHMS
GRN-ORN 45-55 OHMS (Inpact 94/95 only)



Rim device shown — Refer to 33A/35A, 98/99 or 94/95 series catalog for complete product information, mounting styles, outside trim, finishes, etc.

Minimum Door Width:

3´ *(914mm)* device – 2´6˝ *(762mm)*
4´ *(1219mm)* device – 3´0˝ *(914mm)*

Actual device length will vary depending on device type, strike, stop height, single or double door, etc.

UL listed FVSR SA163 Panic Hardware and/or GXHX R4504(N) Fire Exit Hardware. Consult device catalog for fire rated models.

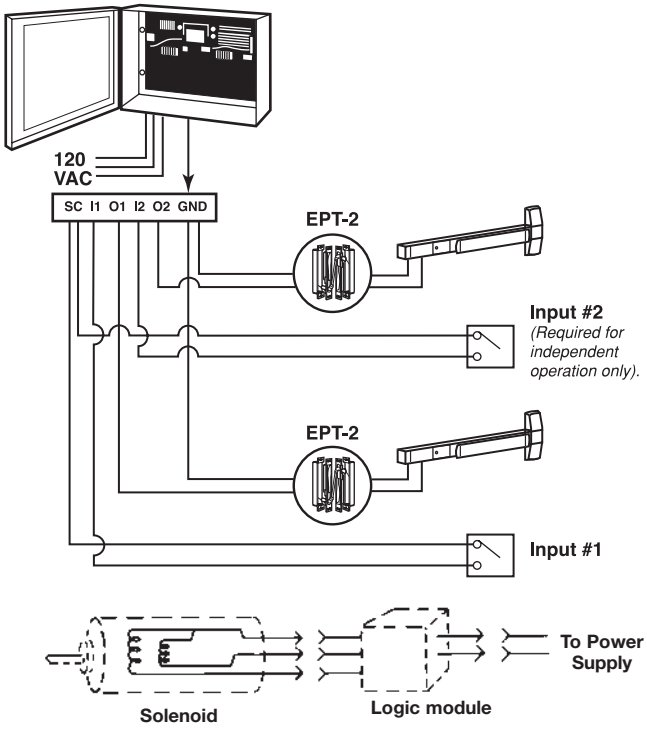


Supplied with 3´ (914mm) Cable at the hinge side of door.

SPECIFICATIONS	
Solenoid	
Continuous Duty	24VDC
Current Inrush (300 milliseconds)	16 amperes
Current Holding (33A/35A + 98/99)	0.3 ampere
Current Holding (Inpact)	0.5 ampere

Popular EL Application

Power Supply PS873-2
Electric Power Transfer EPT-2 or EPT-10



RX (request to exit) signal switch feature is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar. **See Low Current option for computer operated system applications.**

RX2 (double request to exit) features 2 RX switches.

LX (latchbolt monitoring) signal switch monitors both egress and access of an opening. When the latchbolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latchbolt position. **See Low Current option for computer operated system applications.**

LC (low current) option is available for RX and LX switches. **(Most commonly used in computer operated monitoring systems.)** The RX2 is not available in low current.

Signal Switches are available on 22, 33A, 35A, 55, 88, 98, 99 series devices. The low current version is not available with the 55 and 88 series devices.

The INPACT 94/95 series devices are only available with the LX switch option.

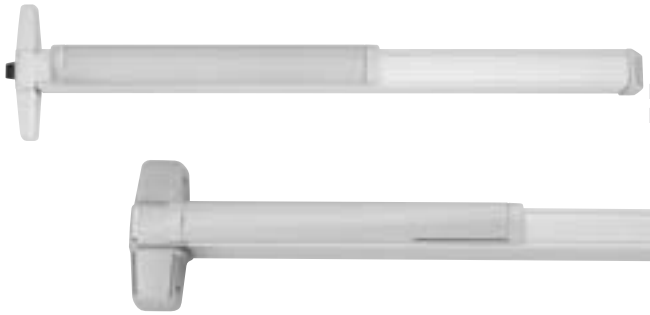
The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring the signal from the frame to the door.

Signal Switches can be used in combination with other electrical functions (EL, E).

- RX or RX2 may be combined with the E (electric unlocking) mortise lock device.
- For latchbolt monitoring on a mortise lock device, specify a SS7500 lock.
- LX and RX switches can be combined. Example: LX-RX99L.
- LX, RX or RX2 switches can be used in combination with EL (electric latch retraction) option.

RX, RX2 and LX switches are available for factory or field installation.

RX and LX switches should not be used to control a load, but as a signaling switch.



LX33A/LX35A
RX33A/RX35A

LX98/LX99
RX98/RX99

Rim device shown — Refer to 33A/35A or 98/99 series catalog for complete product information, mounting styles, outside trim, finishes, etc.

To Order, Specify:

For Factory Installed:

Prefix:	RX	Request to Exit
	RX2	Double Request to Exit
	LX	Latchbolt Monitoring
	LXRX	Latchbolt Monitoring/Request to Exit Combination
	RXLC	Low Current Request to Exit
	LXLC	Low Current Latchbolt Monitoring
	LXRXLC	Low Current Latchbolt Monitoring/Request to Exit Combination

Example: RX99L

For Field Installed:

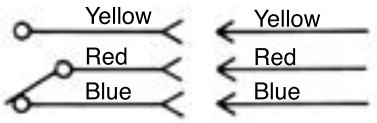
1. Specify switch option (RX, LX, RX-LC, LX-LC).
2. Specify "field".
3. For LX, specify device size 3′ or 4′.
4. For LX, specify if used with EL (electric latch retraction) option.
5. To convert an existing RX option to RX2, specify RX-AUX.

Example: LX 3′ Field

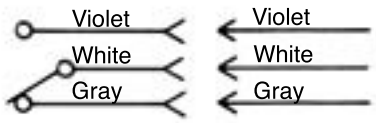
SPECIFICATIONS
RX or LX:
Switch rated 0.5 amperes @ 24VAC/DC resistive
Low Current RX or LX
Switch rated 0.05 amperes @ 24VAC/DC resistive

UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.

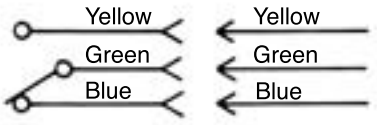
RX Wiring



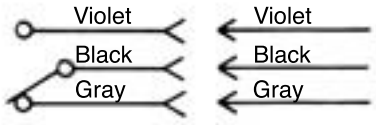
LX Wiring



RX-LC Wiring



LX-LC Wiring



VON DUPRIN® Signal Switch SS

SS signal switch feature is used to signal the unauthorized use of an opening. Available on the 33A/35A and 98/99 series devices, these devices are equipped with two internal SPDT (single pole double throw) switches. One switch monitors both the touch bar and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1¼″ *(32mm)* mortise cylinder (cylinder not furnished) for alarm "bypass" (momentary switch — not time delay).

The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Push pad reads:

"EMERGENCY EXIT ONLY - PUSH TO OPEN AND SOUND ALARM." Push pad is only available in US32D finish with red-silk screened lettering.

SS Mortise Lock devices are furnished with signal switches in the device and the **SS7500 Mortise Lock,** totaling four switches.

The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signaling functions to monitor latch bolt operation and trim locking function.

See page 34 for wire size selection.

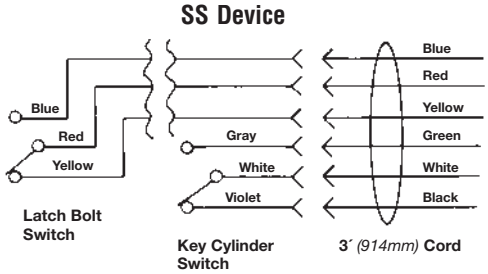
To Order, Specify:

1. Prefix SS (signal switch)
2. Specify handing RHR or LHR

Example SS99L RHR



Supplied with 3′ (914mm) Cable at the hinge side of door.





SS33A/SS35A



SS98/SS99

Rim device shown — Refer to 33A/35A or 98/99 series catalog for complete product information, mounting styles, outside trim, finishes, etc.

UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.

Minimum Door Width:

3′ *(914mm)* device – 2′6″ *(762mm)*
4′ *(1219mm)* device – 3′0″ *(914mm)*

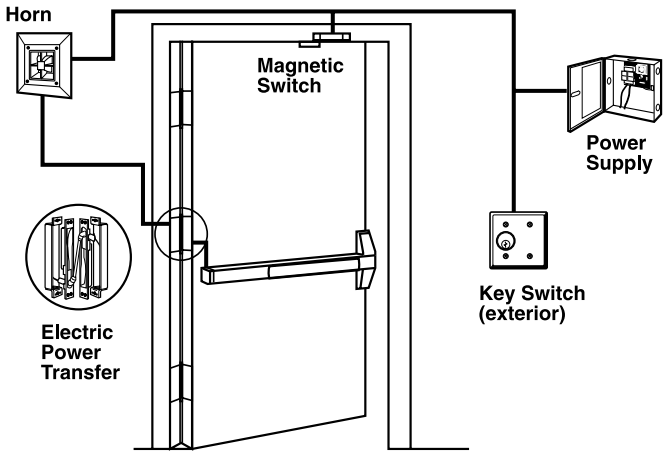
Actual device length will vary depending on device type, strike, stop height, single or double door, etc.

SPECIFICATIONS

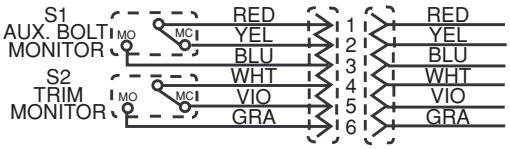
Each switch rated 0.5 ampere
24VDC Restrictive

Popular SS Application

Unauthorized use of this opening will activate the local horn. The key switch permits inhibiting this system for authorized entry.



SS 7500 Mortise Lock



Note: Wiring shown with aux. bolt depressed (door closed) & trim locked.

RX330 and RX350 bar features an active push pad with monitoring switch or "request to exit" switch, used to inhibit alarms for authorized exiting. The 330 grooved outer case and the 350 smooth outer case are designed as companion units for series 33A, 35A, 98 and 99 exit devices.

The RX switch option is also available on 55DU and 88DU crossbars, and are designed as companion units for series 55 and 88 exit devices.

The internal SPDT switch should not be used to control a load, but as a signaling switch.

Minimum Door Openings:

3´ (914mm) *2´6˝ (762mm)* to *3´ (914mm)*
4´ (1219mm) *3´1˝ (940mm)* to *4´ (1219mm)*

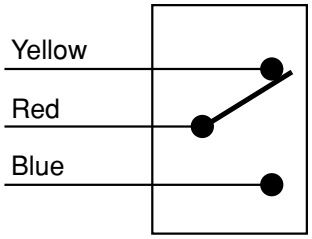
To Order, Specify:

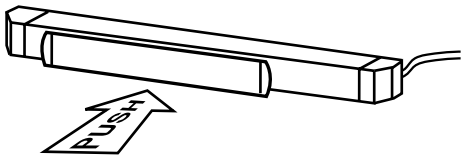
1. Prefix series 330 or 350 with "RX". Example, RX330
2. Size 3´ or 4´ (3´ supplied standard if size not specified)
3. Finish: US3, US4, US10, US28, US26, US26D, 313AN, 315AN

RX330



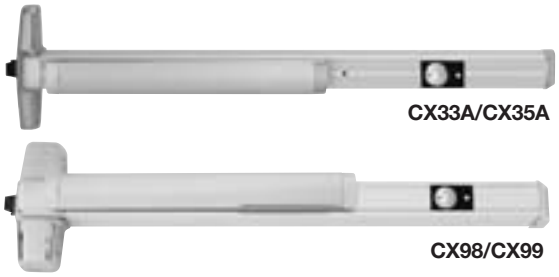
SPECIFICATIONS
SPDT 0.5 ampere @ 24VDC
Solenoid Draw - 0.22 amp





Supplied with 3´ (914mm) cable at the hinge side of door.

Chexit® Controlled Exit Device



Rim device shown — Refer to Chexit Catalog for complete selection information.

CX Chexit is designed for use on delayed exit applications. The Chexit system is ideal for controlled areas. This concept in delayed exit systems combines life safety with the needs of security and meets all requirements of NFPA 101 for "Special Locking Arrangement."

The Chexit system will keep an exit door secured for a 15 second period, yet tied into the fire alarm system will release immediately when an alarm condition exists. All controls, auxiliary locking, local alarm, and remote signaling output are self-contained in the Chexit assembly, providing safe, secure and easy to install door control hardware.

The Chexit system is ideal for highly controlled areas such as airports, hospitals, government facilities and development labs, retail stores, libraries and security facilities.

CX98 and CX99 are available for rim, mortise lock and surface and concealed vertical rod mounting styles. CX33A and CX35A are available on rim mounting style only.

For CX98/9927 and CX98/9957 Panic and Fire Devices, two Rod Guards (RGO) are required. For door heights over 7´ additional Rod Guards (RGO) will be added as needed to protect the rods.

UL listed for use on panic or fire exit doors 3´ or 4´ wide.

The Chexit device includes decal for application on door, "PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS".

A complete Chexit system requires a PS873 power supply and a power transfer. See pages 28 and 29.

FEATURES
- Non handed
- Field sizable
- ¾˝ *(19mm)* throw, latch bolt
- Deadlocking

Request to Exit Switch is built in to detect when someone attempts to exit. Applying less than 15 pounds to the push pad will cause this switch to start an irreversible alarm cycle.

Nuisance Alarm — When the Nuisance Audible and Nuisance Delay options are set to off the device will go into alarm as soon as the push pad is touched. Turning the Nuisance Delay on will require the push pad to be pressed for 2 seconds before the Chexit goes into alarm, which is ideal in public areas. If the Nuisance Audible and Nuisance Delay are both on, the alarm will sound as soon as the push pad is pressed, but the alarm sequence will stop unless held for 2 seconds or more.

Remote Alarm — A set of relay contacts (rated 1 ampere, 24VDC) are provided to give external alarm indication. These contacts close when the device is in an irreversible alarm condition. These contacts can be used to drive a horn, lamp, or other signaling devices.

Key Switch — The Key Switch provides the means to arm, disarm, or reset the Chexit. The key can be removed in either the Arm or Disarm position.

Indicator Lamp — The Indicator Lamp determines the status of the Chexit. When the lamp is off, it indicates disarmed and is functioning as a normal exit device. A slow flashing lamp indicates armed. A fast flashing indicator lamp indicates the device is in alarm.

Internal Horn — Whenever the device is in alarm or the push pad is pressed the Internal Horn will sound. The volume level of this horn exceeds 85 db at 6 feet.

Door Position Input — An external door position switch can be connected to the Chexit. The door position switch will cause the alarm to sound if the door is not closed when the device is armed.

External Inhibit Input — This optional input is provided to allow remote override of the Chexit in the armed condition. It also allows remote reset of the Chexit in an alarmed condition.

Fire Alarm Input — This input disables the Chexit immediately upon a fire alarm.

Internal Auxiliary Lock —The Auxiliary Lock is engaged when the Chexit is armed. The locking mechanism is specifically designed to hold securely even when the exit device is struck with forceful blows.

User Definable Rearm Time — The Rearm Time is the amount of time after the device is activated (via key switch or external inhibit) before it arms. It is designed to give someone time to pass through the door before rearming occurs. The user can change timing for any time between 2 and 28 seconds in two-second intervals.

There is also an infinite rearm setting that requires the use of an external door position switch. In this setting the door remains in the rearm mode until the door is closed. This can be useful on jet way doors in an airport.

Factory Definable Delay — Most jurisdictions allow 15 seconds of delay before allowing egress. In those cases when 15 seconds is not appropriate, Von Duprin can set the Chexit for any delay time between 0 and 60 seconds in two-second increments. ***For delays greater than 15 seconds a letter from the local authority must be provided with the order.***

To Order, Specify:

1. Prefix product description number "CX". Example: CX99L
2. Door size other than 3´ *(914mm)*.
3. Door thickness other than 1 3/4″ *(45mm)*.
4. Finish.
5. Handing, LHR or RHR. Required with "CD" option.

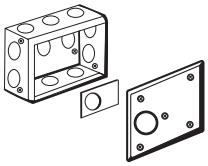
OPTIONS

(See Chexit catalog for all options and accessories)

RCM Remote Chexit Module — is designed to provide the concept of the Chexit delayed exit system for door sizes smaller than the standard Chexit device can accommodate. The Chexit module is installed in a control box and mounted in a remote location. Features and functions of the standard Chexit exit device are available on the Remote Chexit Module.



RCM Module



RCM Control Box, Lens, Cover

Minimum Door Opening for CX and CX-R (RCM)

Device	3´ *(914mm)* Length	4´ *(1219mm)* Length
CX33A/35A RIM	2´10″ *(864mm)*	3´4″ *(1016mm)*
CX 98/99 RIM	2´10″ *(864mm)*	3´4″ *(1016mm)*
CX 98/9927	2´9″ *(838mm)*	3´3″ *(1041mm)*
CX 98/9947	2´9″ *(838mm)*	3´3″ *(1041mm)*
CX 98/9947-F	2´10″ *(864mm)*	3´4″ *(1016mm)*
CX 98/9975	2´10″ *(864mm)*	3´4″ *(1016mm)*
CX-R 33A/35A RIM	2´5″ *(864mm)*	2´11″ *(1016mm)*
CX-R 98/99 RIM	2´5″ *(864mm)*	2´11″ *(1016mm)*
CX-R 98/9927	2´4″ *(838mm)*	2´10″ *(1041mm)*
CX-R 98/9947	2´4″ *(838mm)*	2´10″ *(1041mm)*
CX-R 98/9947-F	2´5″ *(864mm)*	2´11″ *(1016mm)*
CX-R 98/9947WDC	2´5″ *(864mm)*	2´11″ *(1016mm)*
CX-R 98/9975	2´5″ *(864mm)*	2´11″ *(1016mm)*

Cylinder Dogging — Special Center Case Cylinder dogging option is available to allow push/pull operation of the Chexit, when disarmed and used in a heavy traffic area. Prefix device with "CD" and specify handing.

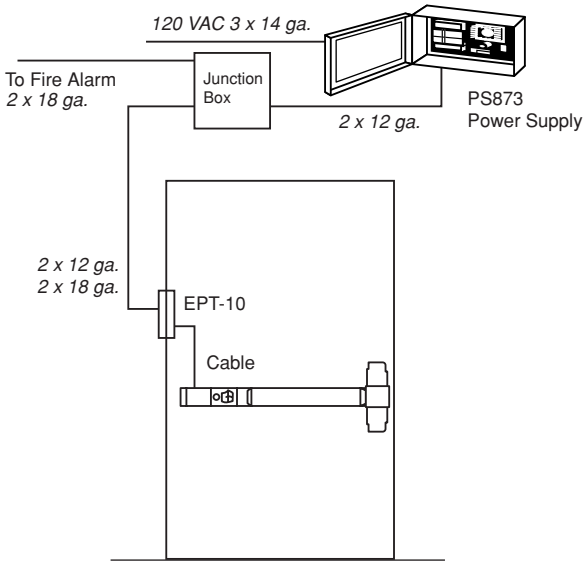


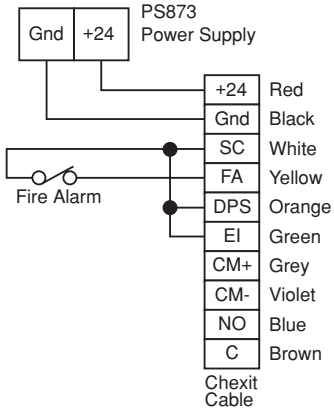
Cylinders — Cylinders are not furnished with the Chexit device and must be specified when ordering. Uses a standard 1 ¼″ *(32mm)* mortise cylinder for the device and the CD cylinder dogging option.



SPECIFICATIONS
Continuous Duty — 24VDC
Current In-rush — 16 amperes
Current Holding — .3 amperes
External Alarm Contact — 1 ampere @ 24VDC
Fire Alarm Input, External Inhibit Input, Door Position Input – set-up for normally closed dry contacts.

Basic Chexit single door application configuration consists of the Chexit device, power transfer and PS873 power supply. Using this setup, the Chexit will delay egress when armed and act as a normal exit device when turned off.





The **DE5101,** like the Chexit system, is used on delayed exit application and is ideal for controlled areas. This concept in delayed exit systems combines life safety with the needs of security and meets all requirements of NFPA 101 for "Special Locking Arrangement."

The DE5101 is commonly used on narrow stile doors where a standard or narrow stile Chexit is not practical. DE5101 Delayed Exit System uses a Chexit logic board and a Von Duprin RX (request to exit) panic device to control a Locknetics Direct Hold Magnetic Lock.

The Chexit module for the DE5101 is installed in a control box and mounted in the wall adjacent to the door. Features and functions of the standard Chexit exit device are available on the DE5101 (see page 22).

The DE5101 includes decal for application on door. "PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS". This is a code based requirement.

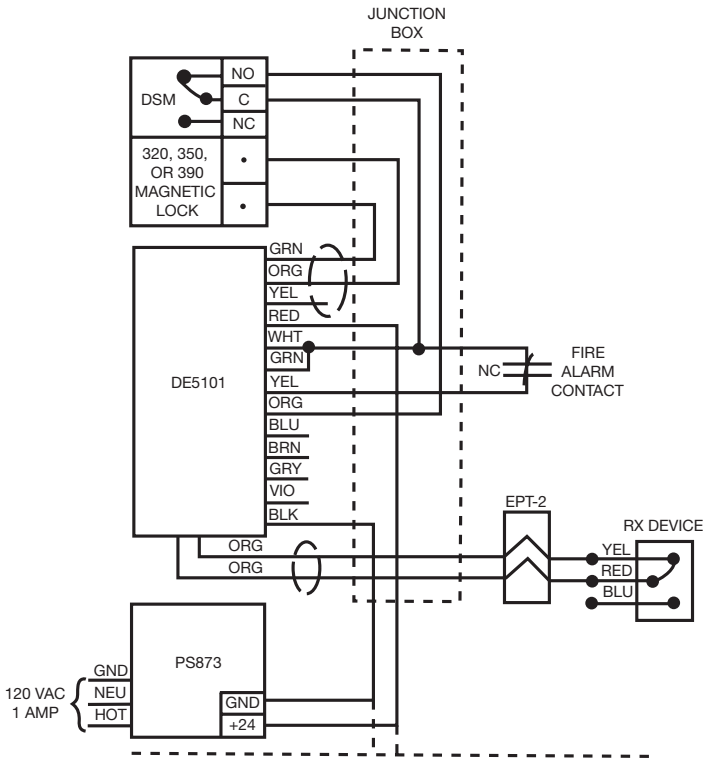
Cylinders — Cylinders are not furnished with the DE5101 system and must be specified when ordering. Uses a standard 1 ¼″ *(32mm)* mortise cylinder for the control. (Schlage cam - B502-191)

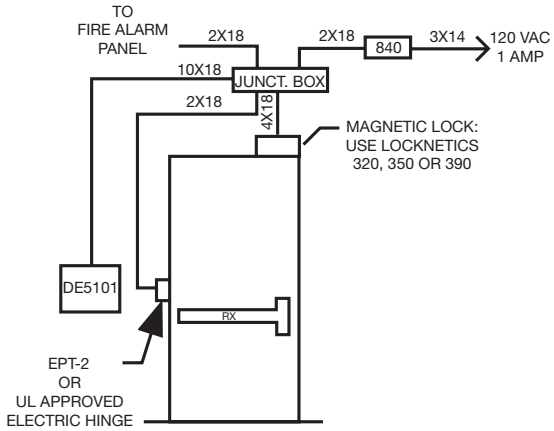


To Order, Specify:

1. DE5101
2. Locknetics 320, 350, or 390 Magnetic Lock (order direct from Locknetics).
3. RX22/33A/35A/98/99 device.
4. PS873
5. EPT-2

SPECIFICATIONS
Continuous Duty — 24VDC
Current Holding DE5101 without Magnetic Locks – 300 mA
External Alarm Contact — 1 ampere @ 24VDC
Fire Alarm Input, External Inhibit Input, Door Position Input – set-up for normally closed dry contacts.





ALK Battery Alarm Kit



ALK Alarm Kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key thus allowing the exit device to be set in an armed or disarmed mode. The horn is rated at 85 decibels.

The key switch uses a standard 1¼" *(32mm)* mortise cylinder with a straight cam (Schlage cam reference B502-191).

The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal. The ALK can also be hard wired and powered using a PS9 power supply.

Alarm kits are furnished standard with a RX-request to exit switch that monitors the touchpad. Optional LX-latch bolt monitoring, or RX2-double request to exit monitor switches are available. LX-latch bolt monitoring is recommended for use with surface vertical rod exit devices.

Note: For latch bolt monitoring on a 98/9975 mortise device with ALK, specify SS7500 lock. LX switch is not available for 98/9975 devices.

The ALK includes a standard decal reading "EMERGENCY EXIT ONLY. ALARM WILL SOUND" for application on the door, or optional SS-signal switch push bar trim is available. See page 18 for details. The standard decal is white with red lettering.

The ALK is available with two optional circuit boards. External inhibit (EI) allows for the use of external switch to be used to arm, disarm and reset the alarm. Auto Reset (AR) rearms the alarm after a preset time. Auto Reset is available in three factory set times, 1 1/2, 3 or 6 minutes.

To Order, Specify:

1. With device, specify ALK.
2. To order separately specify model, example 22ALK.
3. Specify options EI or AR. For AR option specify factory set time (1½, 3 or 6 minutes). Example 98ALK-AR 3 min.
4. Door size other than 3´.
5. Switch if other than RX.
6. Optional pushbar, specify "SS" pushbar trim.
7. Finish:
   22ALK: SP28, SP313
   33A/99ALK: US3, US4, US10, US28, US26, 313AN, 315AN
   35A-ALK: US3, US4, US10, US15, US28, US26, 313AN, 315AN
   98ALK: US3, US4, US10, US15, US28, US26, US32D, 313AN, 315AN

Minimum Door Opening Sizes on ALK Applications

Device	3´ *(914mm)* Length	4´ *(1219mm)* Length
22/22F	2´3˝ *(673mm)*	2´9˝ *(838mm)*
2227/2227-F	2´2˝ *(657mm)*	2´8˝ *(838mm)*
33A/35A	2´9˝ *(838mm)*	3´3˝ *(991mm)*
3327A/3527A	2´8˝ *(813mm)*	3´2˝ *(966mm)*
3347A/3347A-F 3547A/3547A-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
3348A/3348A-F/ 3548A/3548A-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
98/98-F/99/99-F	2´9˝ *(838mm)*	3´3˝ *(991mm)*
9875/9875-F/9975/9975-F	2´9˝ *(838mm)*	3´3˝ *(991mm)*
9827/9827-F/9927/9927-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
9857/9857-F/9957/9957-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
9847/9847-F/9947/9947-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*
9848/9848-F/9948/9948-F	2´8˝ *(813mm)*	3´2˝ *(966mm)*

PS9 POWER SUPPLY

PS9 power supply provides 9VDC to power ALK alarm kits. The unit will power one or two alarm kits. Included is a 9 volt sealed battery for power backup in case of AC power failure. PS9 must be ordered separate.

VON DUPRIN® GUARD-X Exit Device



2670 GUARD-X provides secure, alarmed code-compliant protection for secondary emergency exits. The GUARD-X exit alarm lock readily identifies the door on which it is mounted as an emergency exit and secures the opening against unauthorized use. It is ideal for deterring theft in restaurants and retail establishments such as: discount stores, grocery stores, drug stores, clothing stores and sporting goods stores.

The GUARD-X lock provides secure protection through a large stainless steel deadbolt, which is 2˝ x ½˝ *(51mm x 13mm)* and has over ¾˝ *(19mm)* throw. The engagement area into the strike is over 1 ¼˝ *(32mm)* square inches. The cast aluminum latch case protects the internal mechanism and resists tampering or vandalism from inside the door. This unit has been tested to withstand up to 1600 pounds of static load force against the door.

GUARD-X does not allow re-latching or resetting the alarm after an unauthorized exit, other than by an authorized person with a key. A 100-decibel alarm provides clear, attention getting warning for an unauthorized exit or attempted exit. The armed indicator light informs the owner that the alarm is armed, and an audible low-battery alert signals the owner to replace the battery when necessary.

A standard 9-volt battery powers the alarm. An exterior 9-volt power supply is available, Model PT-790, a 120VAC plug-in. When using the external power supply, the 9-volt battery functions as a battery backup during a power failure.

GUARD-X is armed and disarmed by key using a standard rim cylinder. It can be operated from the building exterior by a standard rim cylinder, so an authorized user can easily arm and disarm it to enter or exit the building when required. When using exterior operation a pull trim is recommended, use 210DT or 230DT. Rim cylinders are not furnished and must be ordered separately.

The 267 strike is furnished standard for single door applications. The optional 2609 strike is available for double door applications.

The GUARD-X non-handed design means the installer can mount it for either hand by just removing and reversing the "EMERGENCY EXIT – ALARM WILL SOUND" sign built into the device. The standard warning sign is in English with Braille; French and Spanish are available.

GUARD-X is UL/cUL listed for Panic Exit Hardware, complies with NFPA 101 Life Safety Code, meets UL305 requirements and is tested in accordance to ANSI A156.3 Grade 1 Panic Hardware. It is compliant with NFPA 101 Life Safety Code by providing a push pad that extends at least one-half the width of any door up to 48˝ wide. The impact-resistant end caps meet UL305 requirements by providing a design that will not catch on clothing during egress.

To Order, Specify:

1. Model 2670
2. Finish: US28, 313AN, 315AN.
3. Strike if other than standard 267.
4. Language if other than English.
5. Specify Rim Cylinder or Sex Bolts if required.
6. Outside trim if needed.

E7500 electric mortise lock has all the versatility and advantages of the standard mortise lock device, plus the advantage of being electrically controlled by a remote switching device, an access control system or an automatic fire alarm system. Available for use with the 98/99 series devices.

The E7500 controls the locking of the outside trim. When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking, but require unlocking during a fire emergency.

The E7500 locks and unlocks electrically and cannot be locked or unlocked mechanically. The outside trim cylinder retracts the latch bolt for mechanical override, night latch function. Available only with TP, K or L functions. 1 ¼″ *(32mm)* mortise cylinder with straight cam (not furnished.) (Schlage B502-191)

The E7500 lock contains a SPDT signal to monitor the outside trim condition (locked or unlocked) and a second SPDT signal switch to monitor the latch bolt.

The E option does not include the power transfer from door to frame, the power supply or the control operator. Refer to EPT-10 on page 29 and PS861 or PS873 power supply on page 28.

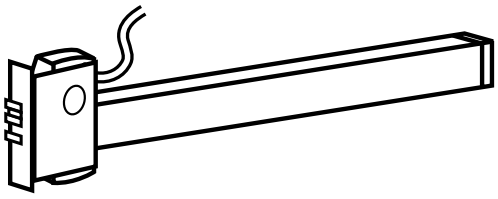
FEATURES

- Field reversible handing
- 24VDC continuous duty solenoid
- Tamper resistant
- Corrosion resistant
- Internal solenoid

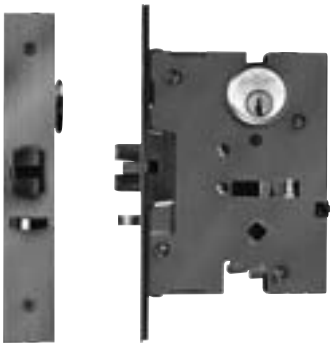
OPTIONS

- Fail safe - locked when energized, unlocked when de-energized or during power failure specify with suffix “FS”.
- Fail secure - unlocked when energized, specify with suffix “FSE”. Outside trim automatically relocks, unless held unlocked electrically.
- 24VAC (includes SO option).
- 12VDC
- 12VAC (includes SO option).

Note: *Some fire codes will require “Fail Safe” (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.*



Wiring at latch side of door.

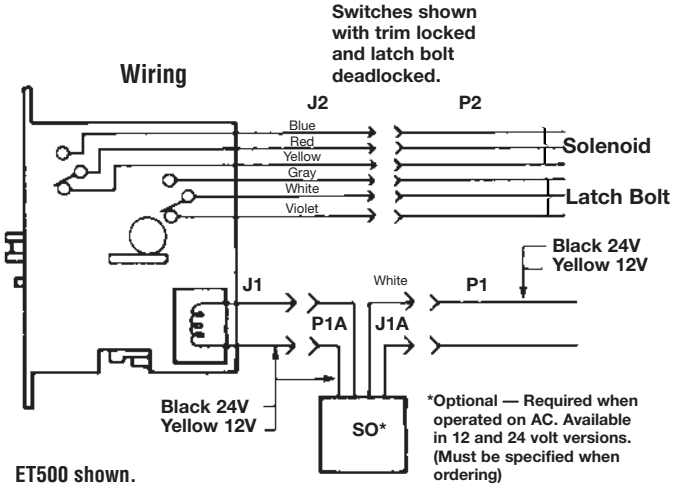


UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware – consult device catalog for complete device listing information.

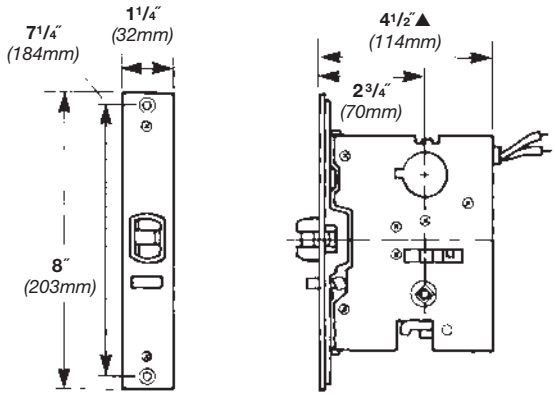
SPECIFICATIONS
Solenoid — 24VDC, .3 ampere, Continuous Duty
Solenoid — 12VDC, .6 ampere, Continuous Duty

To Order, Specify:

1. Model E7500.
2. Voltage 12V or 24V (24V furnished standard if not specified).
3. Current DC or AC (DC current furnished standard if not specified).
4. FS (Fail Safe) or FSE (Fail Secure).
5. Finish: US3, US4, US10, US10B, US32, US32D, US19.
6. When ordering with device, refer to device catalog section for complete product information (type, function, finish, etc.)



ET500 shown.
SS7500 includes only J2/P2 connectors and wiring



4 13⁄16″ *(122mm)* clearance required for wiring.

VON DUPRIN® CM993 and PRO993 Exit Trim

The Von Duprin Computer Managed CM993 exit trim is a stand-alone, battery-powered exit trim for use on doors where an exit device is required for egress. The CM993 is designed to be used with Von Duprin 98/99 exit devices for unmatched access control and ease of use. It can be programmed with LockLink™ or LockLink™ Express access control management software. The same software can also manage the Schlage CM Locks and the Locknetics Universal Controllers, which provide intelligent access control for electrified or battery-powered products such as magnets, strikes and cabinet locks.

Multiple users, Multiple access points. Multiple credentials. One way to manage them.

Provides Unmatched Access Control

- Manages up to 1,000 users and provides audit trail for last 1,000 events
- SmartTime feature allows for time functionality:
  - time zones
  - time schedules
  - holiday override periods
  - first person in
  - credential activation and expiration
- Full-swipe mag stripe card reader for maximum readability and reliability
- Optional audit trail of mechanical key override
- Auto card updating feature which disables a lost or stolen mag stripe card when the reissued card is presented at the lock
- LED status indicators

Easy to Retrofit… Easy to Operate and Architecturally Designed for New Construction

- Directly retrofits existing trim
- Fits doors from 1⅜″ to 2¼″ thick
- Comes with Schlage Everest 1¼″ cylinder, but can adapt to other existing key systems
- LockLink™ software that programs the locks is Windows®-based and menu-driven. It can be operated with minimal training



CM993 Exit Trim



For use with VonDuprin 98/99 Series Exit Devices including Rim, Surface Vertical, Concealed Vertical and Three-Point latching models. (Not for use with mortise devices.)

Conversion to New Card System Not Necessary

- Our exit device trims most likely work with your existing mag card and HID prox cards

Programmable PRO993 Exit Trim for Manual Programming

- Manually program up to 120 keycodes right at the trim
- Similar mechanical features as CM993
- Complements Schlage PRO and Locknetics PRO Series products



CM993 – MGK – 06 – LH – KD – 695 – EXT

- Select Model
- Select Access Credential Option
- Select Lever
- Select Handing
- Select Key Cylinder Option
- Select Finish
- Select Trim Options

1. Select Model



CM993 Computer managed exit trim

993-DT Dummy trim for inactive leaf

PRO993 Manually programmed exit trim

993-BE Blank escutcheon

2. Select Access Credential Option (CMs only)



KPI
Keypad iButton Reader



IBO
iButton Reader



MGK
Mag Card Reader Keypad iButton Reader



MGI
Mag Card Reader iButton Reader



PXK
HID prox Reader Keypad iButton Reader



PXI
HID prox Reader iButton Reader

3. Select Lever



06 (Standard)



17

4. Select Handing

RH Right Hand
LH Left Hand
Note: Handing is field-reversible

5. Select Key Cylinder Option
(1 1/4″ Mortise)

KD Schlage Everest Cylinder
LC Less Cylinder

Note: Master keyed cylinders order separately

6. Select Finish



605 Bright Brass

612 Satin Bronze

613 Oil Rubbed Bronze

625 Bright Chrome

626 Satin Chrome (Standard)

695 Duranodic Dark Bronze

7. Select Trim Options

ATK Audit trail of mechanical key override, includes ATR (Requires computer programming)
T3 ABA Track 3 Mag Card Reader (ABA Track 2 is standard for MGI and MGK Series only)
EXT Mag Card Reader for exterior use (for MGI and MGK Series only)
Door Thickness State door thickness. Available from 1⅜″ to 2¾″ in ⅛″ increments
EG Exterior Gasket for PRO993 only

Select Credentials

IBA iButton (adhesive backed)
IBF iButton on Fob
MAG1 Magnetic Stripe Card – Blank
MAG2 Magnetic Stripe Card – Pre-encoded
PRX1 Prox Card – Standard .070″ thick
PRX2 Prox Card – Adhesive backed for photo application, .070″ thick
PRX3 Prox Card – ISO – credit card size and thickness, .031″ thick
PRX4 Prox Card – Dual Technologies, magnetic stripe and Prox, .031″ thick
PF1 Prox Fob

SERIES PS861
The series PS861 power supply is designed for electromagnetic locks and electric strikes on single door applications. The output power is field selectable for either 24VDC @ 1 ampere or 12VDC @ 2 ampere. Standard input 120VAC @ 0.6 ampere and 240VAC @ 0.3 ampere available. Terminal block will accept up to 14 gauge stranded wire.



Enclosure is 10˝ high x 12½˝ wide x 5˝ deep* *(254mm x 323mm x 127mm)*, gray with 1 hinged cover and constructed of heavy 19 gauge steel. Six ½˝ *(13mm)* knockout holes are provided for conduit connection.

Options include keylock cover and sealed lead acid battery pack. The pair of batteries will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored. Not appropriate for CX or EL devices.

FOUR CONFIGURATIONS

PS861	Standard supply
PS861K	Standard supply with keylock cover
PS861B	Battery backup
PS861BK	Battery backup and keylock cover

SERIES PS873
The series PS873 power supply is designed to operate a wide variety of electrical products. EL panics require 871-2 PCB minimum. The regulated output power is field selectable for either 24VDC @ 2 ampere or 12VDC @ 4 ampere. Standard input 120VAC @ 1.0 ampere or 240VAC @ 0.5 ampere available.

Enclosure is 10˝ high x 12½˝ wide x 5˝ deep *(254mm x 323mm x 127mm)*, gray with a hinged cover and constructed of heavy 19 gauge steel. Five ½˝ x ¾˝ *(13mm x 19mm)* knockout holes are provided for conduit connection. Terminal block will accept up to 12 gauge wire.

The PS873 can be ordered with three standard options: **Key lock** secures the cover to eliminate tampering and provides safety; **Battery backup** provides two hours backup power at full load during a A.C. power failure; **Fire Alarm** provides input for a normally closed fire alarm contact. When the fire alarm contact is “open”, power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

Eight standard configurations:

PS873	Standard
PS873K	With keylock
PS873B	With battery
PS873BK	With battery and keylock
PS873FA	With fire alarm
PS873K-FA	With keylock and fire alarm
PS873B-FA	With battery and fire alarm
PS873BK-FA	With battery, keylock and fire alarm

The series PS873 is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

Factory or Field Installed Circuit Cards:
871-2, Two Zone controller provides two inputs and two outputs. Will operate one or two EL exit devices. Use suffix “-2” for factory installed, example PS873-2.

873-AL, Alarm function monitors 1 or 2 zones and provides alarm output, upon detecting a door in the open position. Delayed alarming is selectable from 5 to 75 seconds. Use suffix “-AL” for factory installed, example PS873-AL.

873-AO, Auto Operator function coordinates the electric latch retraction of one or two locks or devices and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods; by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by a “RX” type input switch. Use suffix “-AO” for factory installed, example PS873-AO.



873-SI, Security/Safety Interlock provide interlock function for two zones. When combined with a second 873-SI card, the inter-locking of groups are available in two, three or four zones. Safety interlock is available, consult factory for additional information. Use suffix “-SI” for factory installed, example PS873-SI.

873-4TD, Four Zone controller with **Time Delay** provides four inputs and four outputs with time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. Use suffix “-4TD” for factory installed, example PS873-4TD.

873-AC, Access Control provides supervision of one zone using an electromagnetic lock. Input signals required are: access control contact, motion detector contact, and motion detector override contact. FA, Fire Alarm option is required. Use suffix “-AC”. For factory installed, example PS873-AC.

Factory Installed Only Circuit Cards:
873-DE, Delayed Egress function ideal for use with electromagnetic locks, will operate two zones simultaneously. To operate two separate zones, a second 873-DE card is required. UL listed component, when used as part of a Von Duprin delayed egress system. Use suffix “-DE”, example PS873-DE.

Note: DE cards cannot be combined with any other optional cards.

PS9 Power Supply
PS9 Power Supply provides 9VDC to power ALK alarm kits. The unit will power one or two alarm kits. Included is a 9 volt seated battery for power backup in case of AC power failure. PS9 must be ordered separate.

Electrical Power Transfer

Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suited for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires.

The EPT-2 and EPT-10 are UL listed as "miscellaneous door accessory."

Pneumatic Controls
PNT-1 is available for pneumatic latch retraction exit devices. Appearance and dimensions are identical to EPT models.

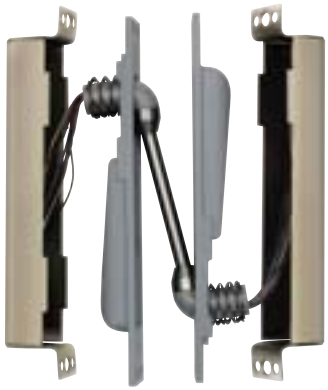
UL listed for use on fire doors.

Door Applications
Up to 5″ butt hinges - 180° Swing
5 1/2″ butt hinges - 130° Swing
6″ butt hinges - 110° Swing
3/4″ butt offset pivots - 180° Swing

Not for use with swing clear hinges or center-hung pivots.

SPECIFICATIONS
Housing — 9″ x 1¼″ x 1⅝″ *(229mm x 32mm x 38mm)*
EPT-2 — Two 18 gauge wires Up to 2 amps @ 24VDC, with a 16 amps maximum surge
EPT-10 — Ten 24 gauge wires, up to 1 amp @ 24VDC, with a 16 amps maximum surge
PNT-1 5/32″ Tubing

TO ORDER, SPECIFY:
1. EPT-2, EPT-10 or PNT-1
2. Finish, SP28 or SP313



UL Listed as "Miscellaneous" Fire Door Accessory" GVUX

Junction Box

High quality NEMA 1, junction boxes provide convenient installation, available in three models. These surface mounted units are 10″ *(254mm)* high, 10" *(254mm)* wide and 6″ *(152mm)* deep and includes hinged door with twist turn lock. 24 position terminal strip will accept from 24 to 12 gauge wire.

Five models:

JB7 Junction box only.

JB7-R1 Junction box with SPDT Relay.

JB7-R2 Junction box with DPDT Relay.

JB7-R3 Junction box with DPDT Relay on Make Relay.

JB7-R4 Junction box with DPDT Relay on Brake Relay.



VON DUPRIN® Monitor Strikes

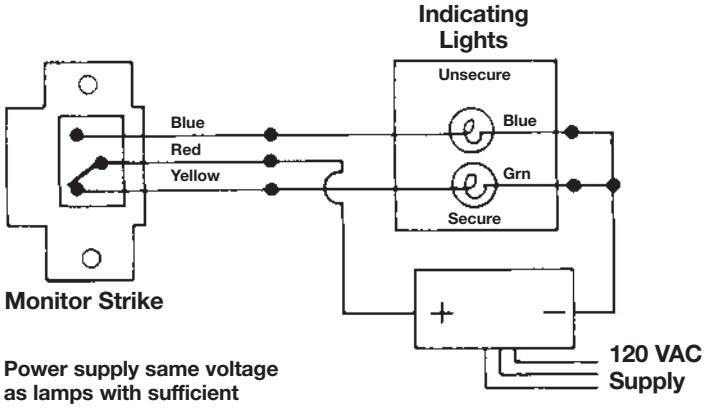
Monitor Strikes are designed to offer remote door monitoring through the use of a signal switch mounted in the strike to monitor the latch bolt. This series of monitor strikes is designed for use with Von Duprin and most other manufacturers' rim, mortise, surface and concealed vertical rod exit devices and cylindrical, mortise, and unit type locks.

The Monitor strike replaces the standard door strike. The tripper in the monitor strike is depressed when the latch bolt is fully inserted in the strike the stainless steel tripper activates an electric switch.

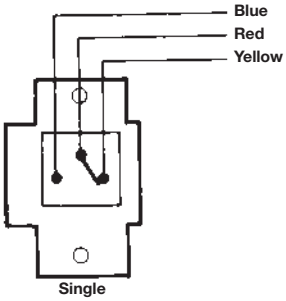
TO ORDER, SPECIFY:

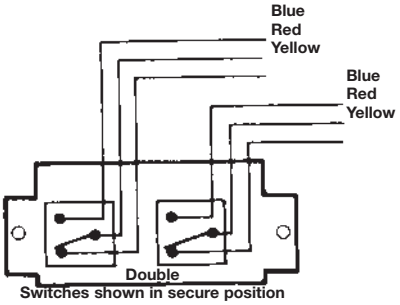
1. Model
2. Tripper T1, T2, or T3.
3. Handing required on model 4582. Specify LHR or RHR.
4. Finish: US3, US4, US10, US10B, US26, US26D.

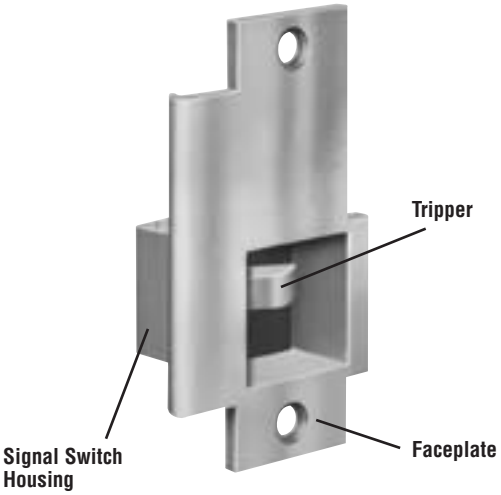
BASIC MONITOR STRIKE CIRCUIT

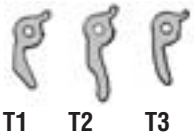


Power supply same voltage as lamps with sufficient current capabilities









▲Tripper selection is based on the throw and shape of the latch bolt.

SPECIFICATIONS
SPDT Switch (single pole double throw):
Rated 24VDC @ 2 amperes (resistive)



4263

4263

Monitor strike for use with rim or surface vertical rod exit devices. The 4263 is non-handed and features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is drop forged brass. The tripper selection (-T1 or -T3) is based upon the lock to be used with. See Chart below. Two 4263 strikes may be used on 4754 mullion.

COMPATIBILITY CHART	
Von Duprin	
22	T3
2227	T1
33A/35A	T1
3327A/3527A	T3
44	T1
55	T1
88	T1
8827	T1
98/99	T3
9827/9927	T1
Monarch	
Rim (3/49 (19mm) throw)	T3
Yale	
1500 (5/89 (16mm) throw)	T1



4268T1 4582

UL listed (GXHX R4504) fire exit hardware.

4268–T1 Single Doors Only - (Not for Mullions)

Monitor strike especially for rim fire devices. The 4268 features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is brass or cast stainless steel. The SPDT signal switch is rated at 24VDC @ 2 amps (resistive) and is actuated by a stainless steel tripper.

COMPATIBILITY CHART
22/22-F
33/35
88/88-F
98/99/98-F/99-F

4582

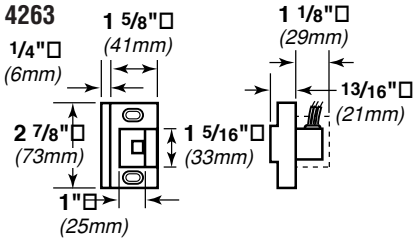
Monitor strike for use with mortise or cylindrical locks on single or pairs of doors with ANSI A115.3 frame cutout (frame modification required). The one piece faceplate and body is constructed of drop forged brass.

The tripper selection (-T1 or -T2) is based upon the lock to be used. See Chart below.

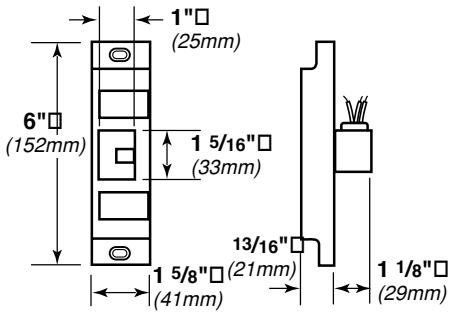
Note: When used with Von Duprin 7500 mortise lock, strike handing is opposite device handing.

COMPATIBILITY CHART		
Von Duprin 7500 ML		T1
Arrow	⅝″ *(16mm)* ML (LR)	T2
Corbin	⅝″ *(16mm)* ML (LR)	T2
Falcon	⅝″ *(16mm)* ML (LR)	T2
Russwin	⅝″ *(16mm)* ML (LR)	T2
	5000 ML (LR)	T2
Schlage	¾″ *(19mm)* Cyl.	T2
	L90	T2
Yale	⅝″ *(16mm)* ML (LR)	T2

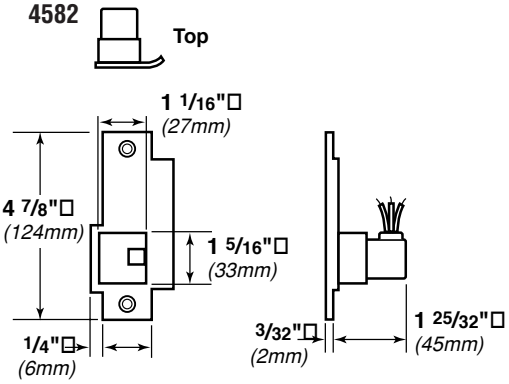
4263



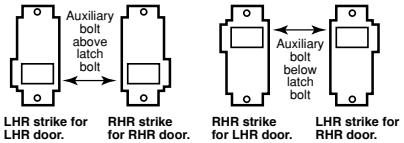
4268-T1



4582



Caution: proper selection of handing required.



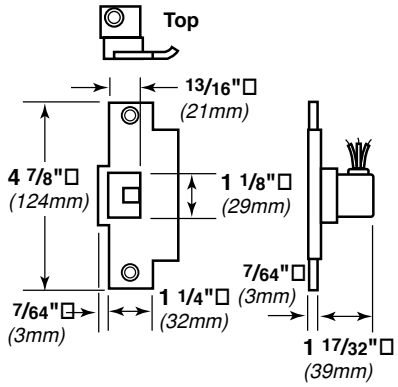
4570–T1
For use on single or double door applications with ANSI A115.2 frame cutout (frame modification required). See Chart below.

4570–T1
For use on single or double door applications with ANSI A115.3 frame cutout (frame modification required). See Chart below.

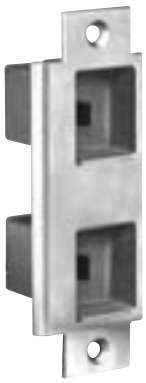
COMPATIBILITY CHART		
Adams-Rite	4510	T1
	8400	T1
Arrow	1/29 (13mm) Cyl.	T1
Best	9/169 (14mm) Cyl.	T1
Corbin	5/89 (16mm) Cyl.	T1
Dexter	7/169 (11mm) Cyl.	T1
Falcon	1/29 (13mm) Cyl.	T1
	9/169 (14mm) Cyl.	T1
Kwikset	1/29 (13mm) Cyl.	T1
Lockwood	1/29 (13mm) Cyl.	T1
Precision	1040 Auto. Flush Bolt	T1★
Russwin	5/89 (16mm) Cyl.	T1
Sargent	1/29 (13mm) Cyl.	T1
Schlage	1/29 (13mm) Cyl.	T1
	5/89 (14mm) Cyl.	T1
Yale	1/29 (13mm) Cyl.	T1

★ **Special template required.**

4570-T1









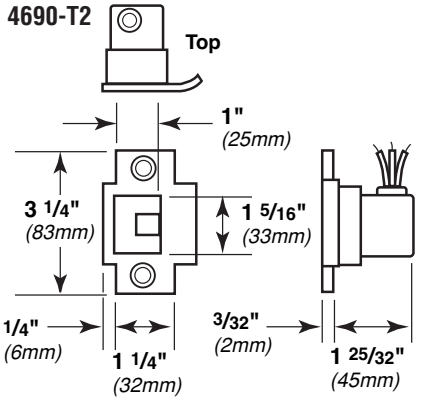
UL listed (GXHX R4504) fire exit hardware, (4268T1 and 4582 only).

4690–T2
Use on wide stile double door applications.

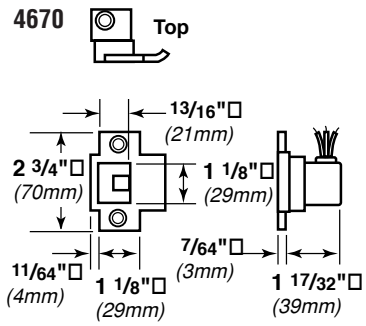
4690–1–T2
Use on narrow stile double door applications. (Contains two SPDT switches, one for each latchbolt).

COMPATIBILITY CHART			
	4690	4690-1	
Von Duprin	3347A-F	—	T2
	3347A	3347A	T2
	9947	—	T2
	9947F	—	T2

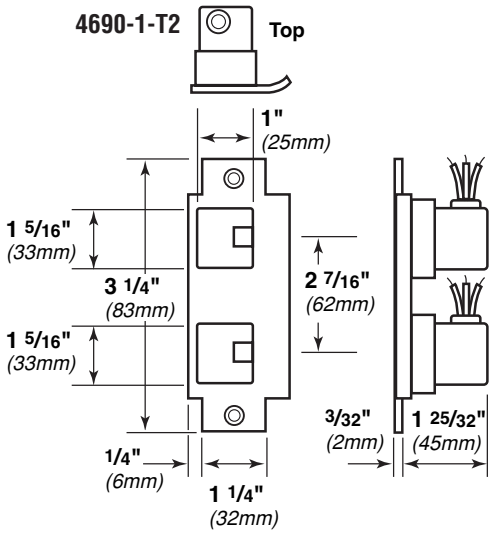
4690-T2



4670



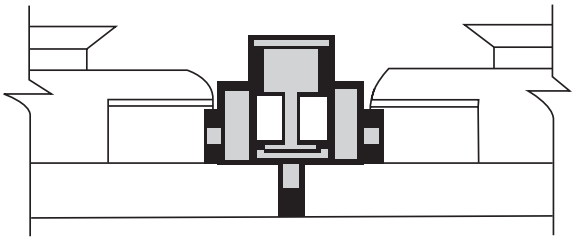
4690-1-T2



Electrified Removable Mullions are used with pairs of doors equipped with rim mounted exit devices.

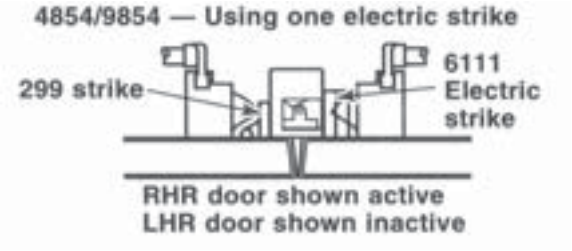
Each includes an electric cable with five conductors wired to a twist-apart plug. The soffit fitting is supplied with a pre-wired mating socket.

4754 — Prepared for two 4263 monitor strikes. Use with all Von Duprin rim panic devices.



4854 — Prepared for one 6111 electric strike and one 299 strike. Indicate handing for electric strike.

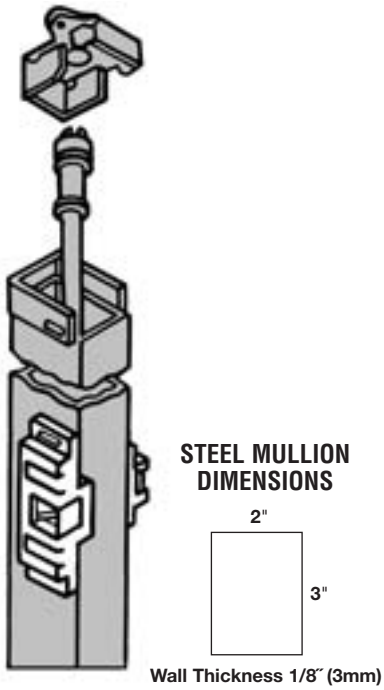
9854 — Prepared for one 6111 electric strike and one 268 or 499F strike. Indicate handing for electric strike. UL Fire labeled for up to 3 hours on up to 8' x 8' (2438mm x 2438mm) openings using Von Duprin fire exit rim devices.



KR - Keyed Removable option available on electrified removable mullion. Makes removal faster and easier by a single operation of the mortise cylinder. Once mullion is removed, large equipment or furniture can freely pass through the opening. The unit will self lock when re-installed, without use of the cylinder key. Uses 1 1/4″ mortise cylinder with a straight cam (Schlage cam reference B502-191). Cylinders are sold separately. Prefix mullion model with "KR".

To Order, specify

1. Model number.
2. Height of opening
3. Finish: SP28, SP313, SPBLK.
4. Handing if required.
5. Centerline deviation (refer to device template for standard centerline).
6. Strikes, when required, should be ordered with device.
7. For keyed removable option prefix model number with "KR", example KR9854.



Sizes for Mullions

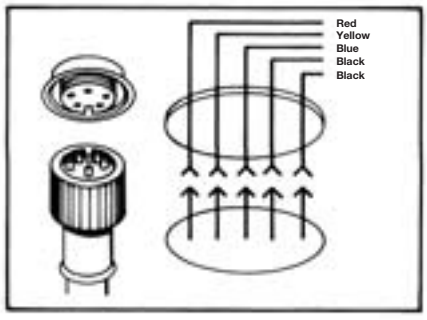
4754, 4854, 9854
7′ 2″ (2184mm)
**8′ 2″ (2489mm)*
**10′ 2″ (3099mm)*

KR4754, KR4854
7′ 6″ (2286mm)
8′ 6″ (2591mm)
10′ 6″ (3200mm)

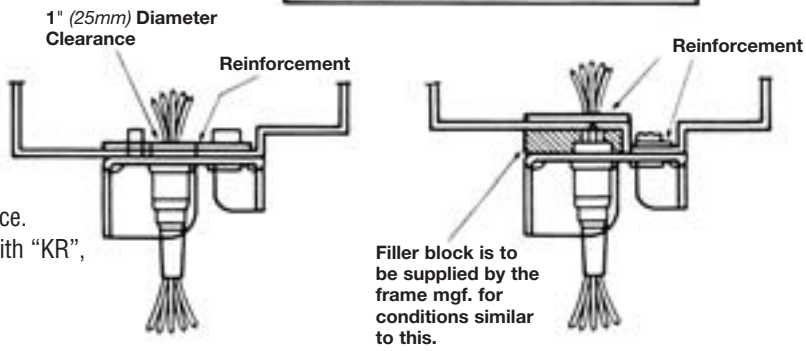
KR9854**
7′ 5″ (2261mm)
**8′ 5″ (2565mm)*
**10′ 5″ (3175mm)*

* Only qualifying applications will be provided with UL Label.
** Fire rated same as 9854

QUICK DISCONNECT

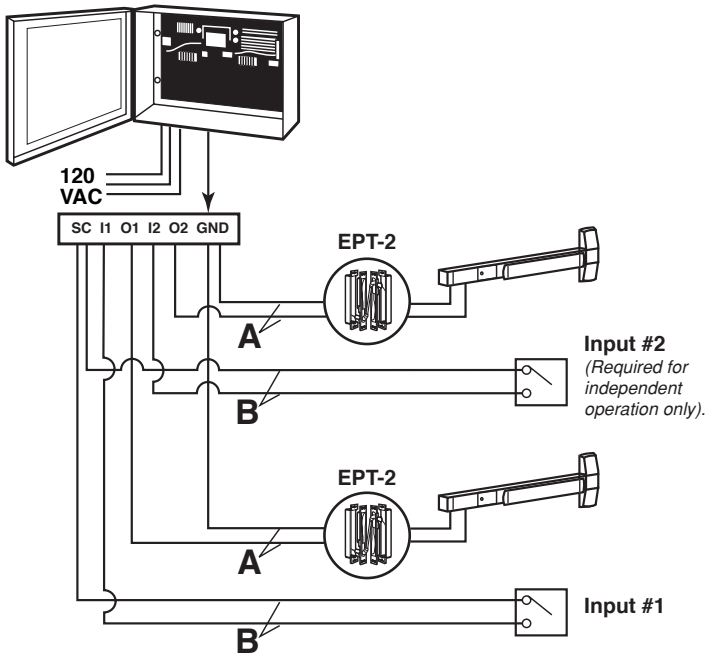


SOFFIT DETAILS



WIRE SIZE SELECTION

	Current requirement at 24 VDC			
	0–.5 Amp	.5–1 Amp	1–2 Amp	2–3 Amp
0-100 *(0-30)*	18	18	18	18
100-200 *(30-61)*	18	18	18	16
200-300 *(61-91)*	18	18	16	14
300-450 *(91-137)*	18	16	14	12
450-600 *(137-183)*	18	16	12	NR
600-900 *(183-274)*	16	14	NR	NR
900-1.200 *(274-366)*	14	12	NR	NR



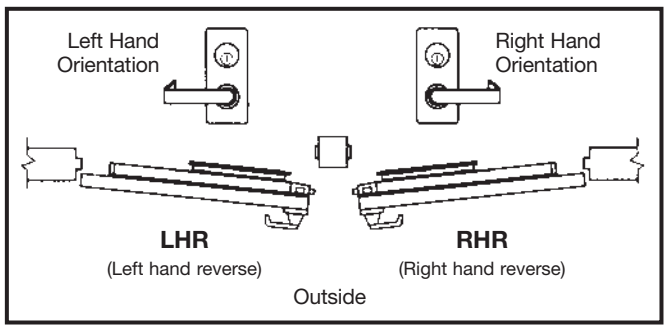
A

WIRE SIZE SELECTION	Using EL Device w/EPT or Door Loop
0-100 *ft*	14 gauge
0-200 *ft*	12 gauge
	Using EL Device w/Electric Hinge/Pivot (not shown)
0-150 *ft*	12 gauge
0-75 *ft*	14 gauge

B

WIRE SIZE SELECTION	Using EL Device w/EPT or Door Loop
1200 *ft* (366 meters) Maximum	B-18 gauge

HANDING OF DOORS



VON DUPRIN®

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Caribbean / Mexico

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(905) 278-1413 FAX
(877) 590-4734

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+(86) 21 5410-1110 FAX
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+65 6861-9563 FAX

Australia / NZ

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Visit Von Duprin on the web

www.vonduprin.com

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Ingersoll Rand delivers on code compliance.

When it's your job to specify code-compliant door hardware, Ingersoll Rand can make selecting the right product easy. From our Von Duprin WS exit device to Steelcraft tornado- and hurricane-rated doors, Ingersoll Rand has the products you need to help protect life safety and property security.

Published in 2008, ICC 500 provides minimum design and construction requirements for storm shelters that provide a safe refuge from storms that produce high winds, hurricanes and tornados. When you specify the WS exit device for a building that may be used as a storm shelter you can be sure you are selecting a product certified and tested to perform in the most severe wind conditions.









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VON DUPRIN®

WS9827/9927 Exit Device

Hardware built for extreme weather.

Ingersoll Rand
Security Technologies

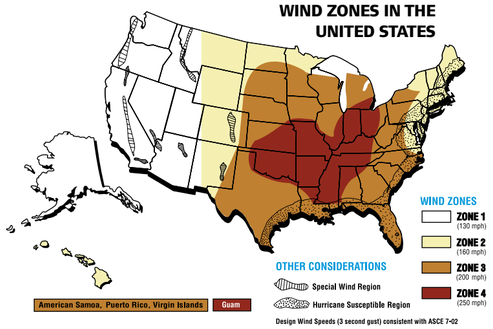
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Specialized life safety in every zone.

Many areas of the United States are subject to the extreme wind-load and debris impact conditions resulting from tornados and hurricanes. The past decade has brought record-breaking numbers of deadly storms across the central and southern regions of the country; every state has experienced at least one tornado.

It is important to ensure life safety during these severe wind storm events. The 2009 International Building Code® has developed new standards that specifically address the design and construction for structures that have been designated as either hurricane or tornado shelters, ICC 500 Standard for the Design and Construction of Storm Shelters.



WS9827/9927 Surface Mounted Vertical Rod Device

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts and gurneys passing through doors.

Specifications

Device Functions	Device ships EO. For TP, K, or L remove NL drive screw from device
Device Lengths	3′ - 2′4″ to 3′ (71mm to 914mm) Door size 4′ - 2′10″ to 4′ (864mm to 1219mm) Door size
Strikes	Bottom – 304L Unfinished
Dogging Feature	Hex key dogging standard (Panic)
Dogging Options	CD Cylinder Dogging LD Less Dogging
Electrical Options	LX Latchbolt monitor switch RX Pushpad monitor switch RX-2 Double pushpad monitor switch ALK Alarm exit kit SS Signal switch
Fasteners & Sex Bolts (SNB)	Includes 1 3/4″ (44mm) Metal Doors SNB furnished for top & bottom latches and device (required)
Device Centerline from Finished Floor	39 1/2″ (1003mm)

Door Undercut	1/4″ (7mm)
Center Case Dimensions	8″ x 2 3/4″ x 2 3/8″ (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 1/4″ x 2 1/4″ (57mm x 57mm)
Top & Bottom Latch Case	4 1/2″ x 2 1/2″ x 1 7/8″ (114mm x 64mm x 48mm)
Vertical Rods	1/2″ (13mm) round tubing, standard rods accommodate 7′ (2134mm) door Top rod length is 36 1/4″ (921mm) Bottom rod length is 31 3/4″ (806mm) Extension rods available, 1′ (305mm) or 3′ (914mm) for doors over 7′ (2134mm)
Projection	Pushbar Neutral – 3 13/16″ (97mm) Pushbar Depressed – 3 1/16″ (78mm)
Finishes	US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9827 device only

Standard Trim





	Exit Only	Thumbturn Key Locks and Unlocks (Use with OT Trim)	Thumbturn Blank Escutcheon Always Operable (No Cylinder. Use with OT Trim)
Product Description	WS9827EO WS9927EO	WS9827TL WS9927TL	WS9827TL-BE WS9927TL-BE
Trim Description	-	377T x 990DT	377T x 990DT
Escutcheon Plate Size	-	2 9/16″ x 5 1/2″ x 2 5/8″ (65mm x 140mm x 67mm)	2 3/4″″ x 10 3/4″ x 27/32″ (70mm x 273mm x 21mm)
Pull Center to Center	-	-	-
Projection	-	3 1/4″ (83mm)	3 1/4″ (83mm)
ANSI Function	01	11	-
Cylinder Type	-	1 1/4″ (32mm) Mortise	-
Optional Trim	x990EO x992EO x994EO x996EO		
Required #425 Sex Bolt Quantity for Device	6	2	2

Standard Trim





	Lever Key Locks and Unlocks	Lever - Blank Escutcheon Always Operable (No Cylinder)
Product Description	WS9827L WS9927L	WS9827L-BE WS9927L-BE
Trim Description	996L-R/V	996L-BE-R/V
Escutcheon Plate Size	2 3/4″ x 10 3/4″ x 27/32″ (70mm x 273mm x 21mm)	2 3/4″ x 10 3/4″ x 27/32″ (70mm x 273mm x 21mm)
Pull Center to Center	-	-
Projection	2 7/8″ (73mm)	2 7/8″ (73mm)
ANSI Function	08	-
Cylinder Type	Rim	-
Optional Trim	x992L x994L	x992L-BE x994L-BE
Required #425 Sex Bolt Quantity for Device	2	2

Specifications Compliance

UL Listed – Panic hardware UL 305; Fire exit hardware UL 10 C; rating 3-hour pair of doors (double egress), 90 minute pairs (swinging same direction); door size is 8′0″ x 8′0″ (2438mm x 2438mm) hollow metal

BHMA Grade 1
ANSI A156.3-2001g1

Windstorm ratings:

A. Door applications – 8′0″ x 8′0″ (2438mm x 2438mm) pairs (swinging same direction); 4′0″ x 8′0″ (1219mm x 2438mm) single (non-fire-rated only) flush hollow metal.

B. Miami-Dade County/FBC compliance to TAS 201, TAS 202, TAS203 (NOA pending); design load rating +150/-150 PSF (245 MPH wind zone); Enhanced Hurricane Protection (EHPA) ASTM E1996; ANSI/ICC 500 (245 MPH wind zone)

C. UL-FEMA 361 certified 8′0″ x 8′0″ (2438mm x 2438mm) pairs (swinging same direction) and 4′0″ x 8′0″ (1219mm x 2438mm) single (non-fire-rated only) flush hollow metal.

D. UL-ANSI/ICC 500 certified for F5 tornado applications.

These devices are listed with Steelcraft Paladin™ doors for tornado listings and Steelcraft H Series doors for hurricane listings. Visit www.steelcraft.com for more information.

How to order.
Specify prefix WS. Available on the following 98/99 Series devices:

WS98/9927
WS98/9927-F

Strike Application Information

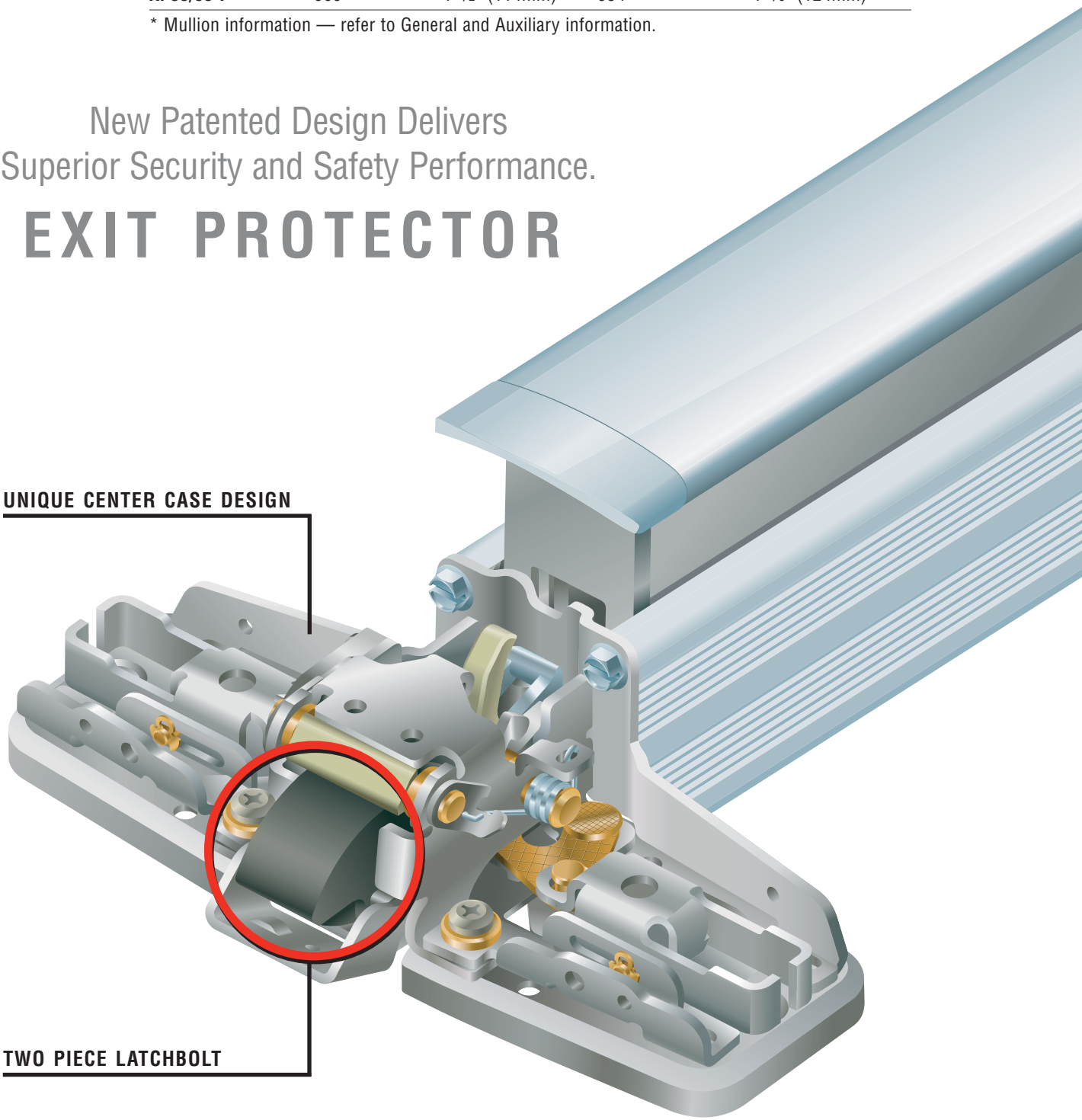
STRIKE APPLICATION/MINIMUM STILE USING STANDARD TRIM

Device Type	Standard Single Door		Double Door	
	Strike	Stile	Strike w/Mullion*	Stile
XP98/99	909	4 1/2″ (114mm)	909	4 3/4″ (120mm)
XP98/99-F	909	4 1/2″ (114mm)	954	4 7/8″ (124mm)

* Mullion information — refer to General and Auxiliary information.

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VON DUPRIN®

XP 98/99

Rim Exit Device



Introduction

Balancing security and safety has always been a challenge with any panic exit device design. With the new XP98/99 Rim exit device, Von Duprin has engineered a device that reaches a new standard for security while enhancing the safety performance features. The new patented center case design takes the proven reliability of the 98/99 series and adds a new latch bolt concept that delivers the industry's highest lever of latching security.

Additionally, upgrading for current 98/99 owners will be made easy and affordable. The new device will match the existing 98/99 device footprint, eliminating costly door prep changes. A new retrofit kit will allow conversion of existing 99 devices into the new XP99 function, making higher security an affordable function.

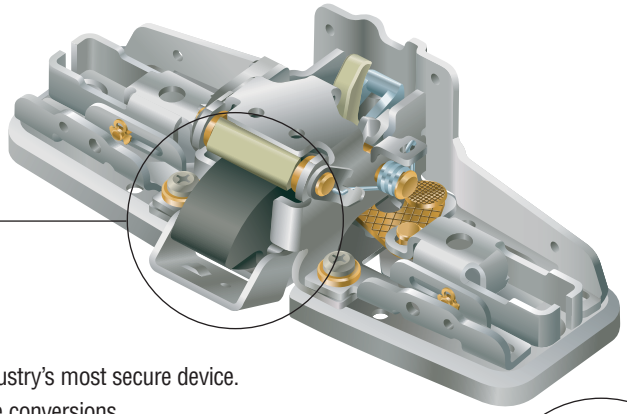
For over 100 years Von Duprin has set the standard for innovation and quality in the world of exit devices. The XP98/99 Rim device is another page in this long honored story of excellence.



XP99 Series features grooved mechanism case.

XP98 Series features smooth mechanism case.

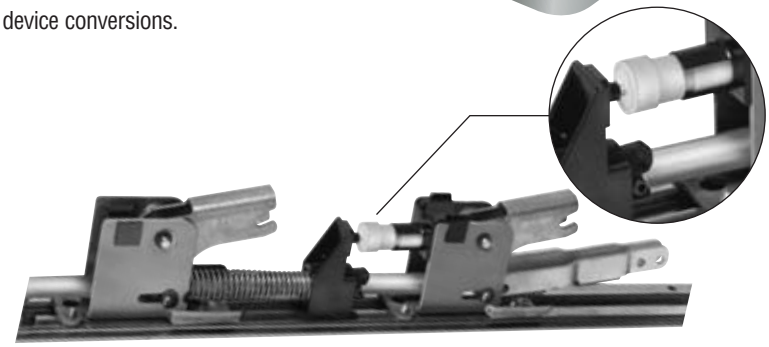
Von Duprin push pad exit devices are available in two external surface styles, designated XP98 Series and XP99 Series. The two styles are mechanically and dimensionally identical and provide a wide selection of appearance options.



Latch Bolt

New latchbolt design provides the industry's most secure device.

Retro-fit kits available for 98/99 device conversions.



The Quiet One®

A fluid dampener decelerates the pushpad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all XP98/99™ series exit devices.

VON DUPRIN® XP98/99™ Rim Exit Device



XP98 and XP99 rim exit devices for all types of single and double doors with mullion, UL listed for accident hazard installations. Covers stock hollow metal doors with 86 or 161 cutouts.

XP98-F and XP99-F fire exit rim devices for all types of 4´ x 10´ (1219mm x 2438mm) single doors or 8´ x 10´ (2438mm x 2438mm) double doors with 9954 mullion, UL listed A, B, C, D, or E fire labeled installations.



909 Strike



954 Strike With 9854/9954 Mullion

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3´ 2´4˝ to 3´ (711mm to 914 mm) Door Size 4´ 2´10˝ to 4´ (864 mm to 1219 mm) Door Size
Strikes	909 – Panic and Fire Single Door 954 — Mullion Fire
Dogging Feature	Hex key dogging standard
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging
Electric Options (Consult factory)	RX Pushpad Monitor Switch* RX2 Double Pushpad Monitor Switch* E Electric Locking & Unlocking ALK Alarm Exit Kit*
Miscellaneous Options	-2 Double Cylinder* GBK Glass Bead Kit
Fasteners & Sex Bolts (SNB)	Includes 1 ¾˝ (19mm) – 2 ¼˝ (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities
Latch Bolt	Deadlocking, ¾˝ (19mm) throw
Device Centerline from Finished Floor	39 13⁄16˝ (1011 mm) 39 11⁄16˝ (1008 mm) with Mullion
Center Case Dimensions	8˝ x 2¾˝ x 2⅜˝ (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2¼˝ x 2¼˝ (57mm x 57mm)
Projection	Pushbar Neutral – 3 13⁄16˝ (97 mm) Pushbar Depressed – 3 1⁄16˝ (78 mm)

See full-line product catalog for "How to Order" specification.

*** Available Q3, 2006**

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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required
				
Product Description	XP98EO XP99EO	XP98DT XP99DT	XP98NL XP99NL	XP98NL-OP XP99NL-OP
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	6

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged
				
Product Description	XP98L XP99L	XP98L-NL XP99L-NL	XP98L-BE XP99L-BE	XP98L-DT XP99L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-R/V
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

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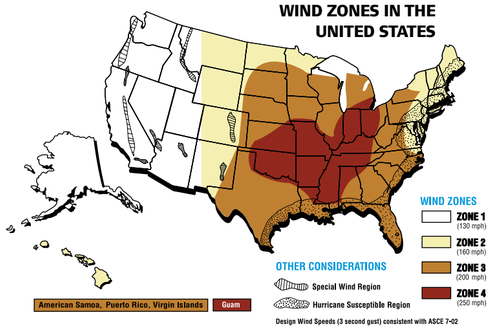
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WS9827/9927 Surface Mounted Vertical Rod Device

Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts and gurneys passing through doors.

Specifications

Device Functions	Device ships EO. For TP, K, or L remove NL drive screw from device
Device Lengths	3′ - 2′4″ to 3′ (71mm to 914mm) Door size 4′ - 2′10″ to 4′ (864mm to 1219mm) Door size
Strikes	Bottom – 304L Unfinished
Dogging Feature	Hex key dogging standard (Panic)
Dogging Options	CD Cylinder Dogging LD Less Dogging
Electrical Options	LX Latchbolt monitor switch RX Pushpad monitor switch RX-2 Double pushpad monitor switch ALK Alarm exit kit SS Signal switch
Fasteners & Sex Bolts (SNB)	Includes 1 3/4″ (44mm) Metal Doors SNB furnished for top & bottom latches and device (required)
Device Centerline from Finished Floor	39 1/2″ (1003mm)

Door Undercut	1/4″ (7mm)
Center Case Dimensions	8″ x 2 3/4″ x 2 3/8″ (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 1/4″ x 2 1/4″ (57mm x 57mm)
Top & Bottom Latch Case	4 1/2″ x 2 1/2″ x 1 7/8″ (114mm x 64mm x 48mm)
Vertical Rods	1/2″ (13mm) round tubing, standard rods accommodate 7′ (2134mm) door Top rod length is 36 1/4″ (921mm) Bottom rod length is 31 3/4″ (806mm) Extension rods available, 1′ (305mm) or 3′ (914mm) for doors over 7′ (2134mm)
Projection	Pushbar Neutral – 3 13/16″ (97mm) Pushbar Depressed – 3 1/16″ (78mm)
Finishes	US3, US4, US10, US26, US26D, US28, 313AN, 315AN and US32D for the 9827 device only

Standard Trim





	Exit Only	Thumbturn Key Locks and Unlocks (Use with OT Trim)	Thumbturn Blank Escutcheon Always Operable (No Cylinder. Use with OT Trim)
Product Description	WS9827EO WS9927EO	WS9827TL WS9927TL	WS9827TL-BE WS9927TL-BE
Trim Description	-	377T x 990DT	377T x 990DT
Escutcheon Plate Size	-	2 9/16″ x 5 1/2″ x 2 5/8″ (65mm x 140mm x 67mm)	2 3/4″″ x 10 3/4″ x 27/32″ (70mm x 273mm x 21mm)
Pull Center to Center	-	-	-
Projection	-	3 1/4″ (83mm)	3 1/4″ (83mm)
ANSI Function	01	11	-
Cylinder Type	-	1 1/4″ (32mm) Mortise	-
Optional Trim	x990EO x992EO x994EO x996EO		
Required #425 Sex Bolt Quantity for Device	6	2	2

Standard Trim





	Lever Key Locks and Unlocks	Lever - Blank Escutcheon Always Operable (No Cylinder)
Product Description	WS9827L WS9927L	WS9827L-BE WS9927L-BE
Trim Description	996L-R/V	996L-BE-R/V
Escutcheon Plate Size	2 3/4″ x 10 3/4″ x 27/32″ (70mm x 273mm x 21mm)	2 3/4″ x 10 3/4″ x 27/32″ (70mm x 273mm x 21mm)
Pull Center to Center	-	-
Projection	2 7/8″ (73mm)	2 7/8″ (73mm)
ANSI Function	08	-
Cylinder Type	Rim	-
Optional Trim	x992L x994L	x992L-BE x994L-BE
Required #425 Sex Bolt Quantity for Device	2	2

Specifications Compliance

UL Listed – Panic hardware UL 305; Fire exit hardware UL 10 C; rating 3-hour pair of doors (double egress), 90 minute pairs (swinging same direction); door size is 8′0″ x 8′0″ (2438mm x 2438mm) hollow metal

BHMA Grade 1
ANSI A156.3-2001g1

Windstorm ratings:

A. Door applications – 8′0″ x 8′0″ (2438mm x 2438mm) pairs (swinging same direction); 4′0″ x 8′0″ (1219mm x 2438mm) single (non-fire-rated only) flush hollow metal.

B. Miami-Dade County/FBC compliance to TAS 201, TAS 202, TAS203 (NOA pending); design load rating +150/-150 PSF (245 MPH wind zone); Enhanced Hurricane Protection (EHPA) ASTM E1996; ANSI/ICC 500 (245 MPH wind zone)

C. UL-FEMA 361 certified 8′0″ x 8′0″ (2438mm x 2438mm) pairs (swinging same direction) and 4′0″ x 8′0″ (1219mm x 2438mm) single (non-fire-rated only) flush hollow metal.

D. UL-ANSI/ICC 500 certified for F5 tornado applications.

These devices are listed with Steelcraft Paladin™ doors for tornado listings and Steelcraft H Series doors for hurricane listings. Visit www.steelcraft.com for more information.

How to order.
Specify prefix WS. Available on the following 98/99 Series devices:

WS98/9927
WS98/9927-F

Strike Application Information

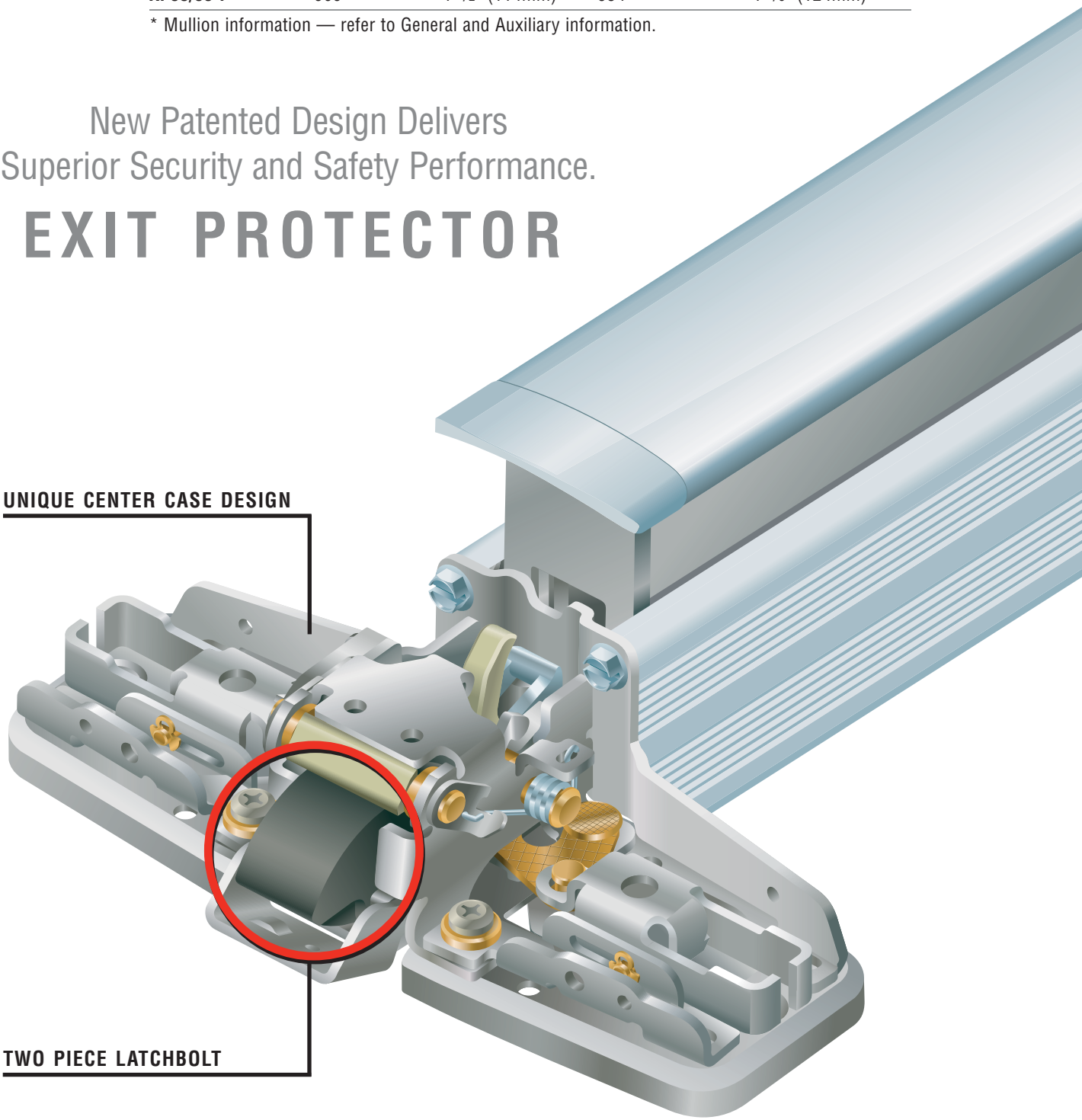
STRIKE APPLICATION/MINIMUM STILE USING STANDARD TRIM

Device Type	Standard Single Door		Double Door	
	Strike	Stile	Strike w/Mullion*	Stile
XP98/99	909	4 1/2″ (114mm)	909	4 3/4″ (120mm)
XP98/99-F	909	4 1/2″ (114mm)	954	4 7/8″ (124mm)

* Mullion information — refer to General and Auxiliary information.

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VON DUPRIN®

XP 98/99

Rim Exit Device



Introduction

Balancing security and safety has always been a challenge with any panic exit device design. With the new XP98/99 Rim exit device, Von Duprin has engineered a device that reaches a new standard for security while enhancing the safety performance features. The new patented center case design takes the proven reliability of the 98/99 series and adds a new latch bolt concept that delivers the industry's highest lever of latching security.

Additionally, upgrading for current 98/99 owners will be made easy and affordable. The new device will match the existing 98/99 device footprint, eliminating costly door prep changes. A new retrofit kit will allow conversion of existing 99 devices into the new XP99 function, making higher security an affordable function.

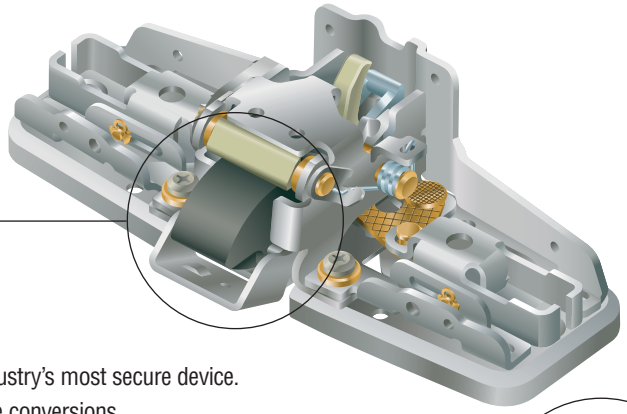
For over 100 years Von Duprin has set the standard for innovation and quality in the world of exit devices. The XP98/99 Rim device is another page in this long honored story of excellence.



XP99 Series features grooved mechanism case.

XP98 Series features smooth mechanism case.

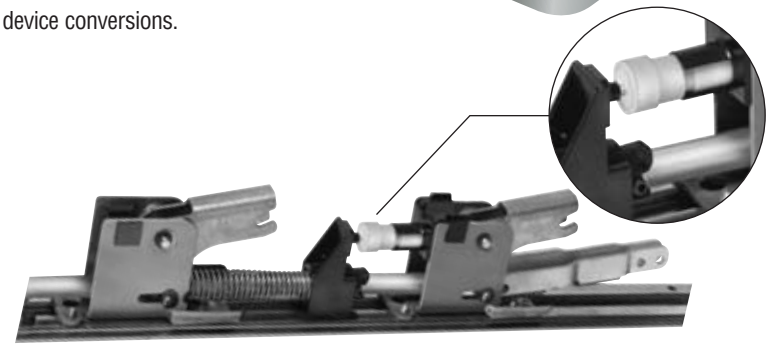
Von Duprin push pad exit devices are available in two external surface styles, designated XP98 Series and XP99 Series. The two styles are mechanically and dimensionally identical and provide a wide selection of appearance options.



Latch Bolt

New latchbolt design provides the industry's most secure device.

Retro-fit kits available for 98/99 device conversions.



The Quiet One®

A fluid dampener decelerates the pushpad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all XP98/99™ series exit devices.

VON DUPRIN® XP98/99™ Rim Exit Device



XP98 and XP99 rim exit devices for all types of single and double doors with mullion, UL listed for accident hazard installations. Covers stock hollow metal doors with 86 or 161 cutouts.

XP98-F and XP99-F fire exit rim devices for all types of 4´ x 10´ (1219mm x 2438mm) single doors or 8´ x 10´ (2438mm x 2438mm) double doors with 9954 mullion, UL listed A, B, C, D, or E fire labeled installations.



909 Strike



954 Strike With 9854/9954 Mullion

Specifications

Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3´ 2´4˝ to 3´ (711mm to 914 mm) Door Size 4´ 2´10˝ to 4´ (864 mm to 1219 mm) Door Size
Strikes	909 – Panic and Fire Single Door 954 — Mullion Fire
Dogging Feature	Hex key dogging standard
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging
Electric Options (Consult factory)	RX Pushpad Monitor Switch* RX2 Double Pushpad Monitor Switch* E Electric Locking & Unlocking ALK Alarm Exit Kit*
Miscellaneous Options	-2 Double Cylinder* GBK Glass Bead Kit
Fasteners & Sex Bolts (SNB)	Includes 1 ¾˝ (19mm) – 2 ¼˝ (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities
Latch Bolt	Deadlocking, ¾˝ (19mm) throw
Device Centerline from Finished Floor	39 13⁄16˝ (1011 mm) 39 11⁄16˝ (1008 mm) with Mullion
Center Case Dimensions	8˝ x 2¾˝ x 2⅜˝ (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2¼˝ x 2¼˝ (57mm x 57mm)
Projection	Pushbar Neutral – 3 13⁄16˝ (97 mm) Pushbar Depressed – 3 1⁄16˝ (78 mm)

See full-line product catalog for "How to Order" specification.

*** Available Q3, 2006**

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	Exit only	**Dummy Trim** Pull when Dogged	**Night Latch** Key Retracts Latchbolt	**Night Latch** Key Retracts Latchbolt Optional Pull Required
				
Product Description	XP98EO XP99EO	XP98DT XP99DT	XP98NL XP99NL	XP98NL-OP XP99NL-OP
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	—	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	3" x 14³⁄₁₆" x ³⁄₃₂" *(76x360x2mm)*	—
Pull Center to Center	—	5½" *(140mm)*	5½" *(140mm)*	—
Projection	—	2" *(51mm)*	2" *(51mm)*	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	6

	Lever Key Locks & Unlocks	**Lever – Night Latch** Key Retracts Latchbolt	**Lever – Blank Escutcheon** Always operable (No Cylinder)	**Lever Dummy Trim** Pull when Dogged
				
Product Description	XP98L XP99L	XP98L-NL XP99L-NL	XP98L-BE XP99L-BE	XP98L-DT XP99L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-R/V
Escutcheon Plate Size	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*	2¾" x 10¾" x ²⁷⁄₃₂" *(70x273x21mm)*
Pull Center to Center	—	—	—	—
Projection	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*	2⅞" *(73mm)*
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2