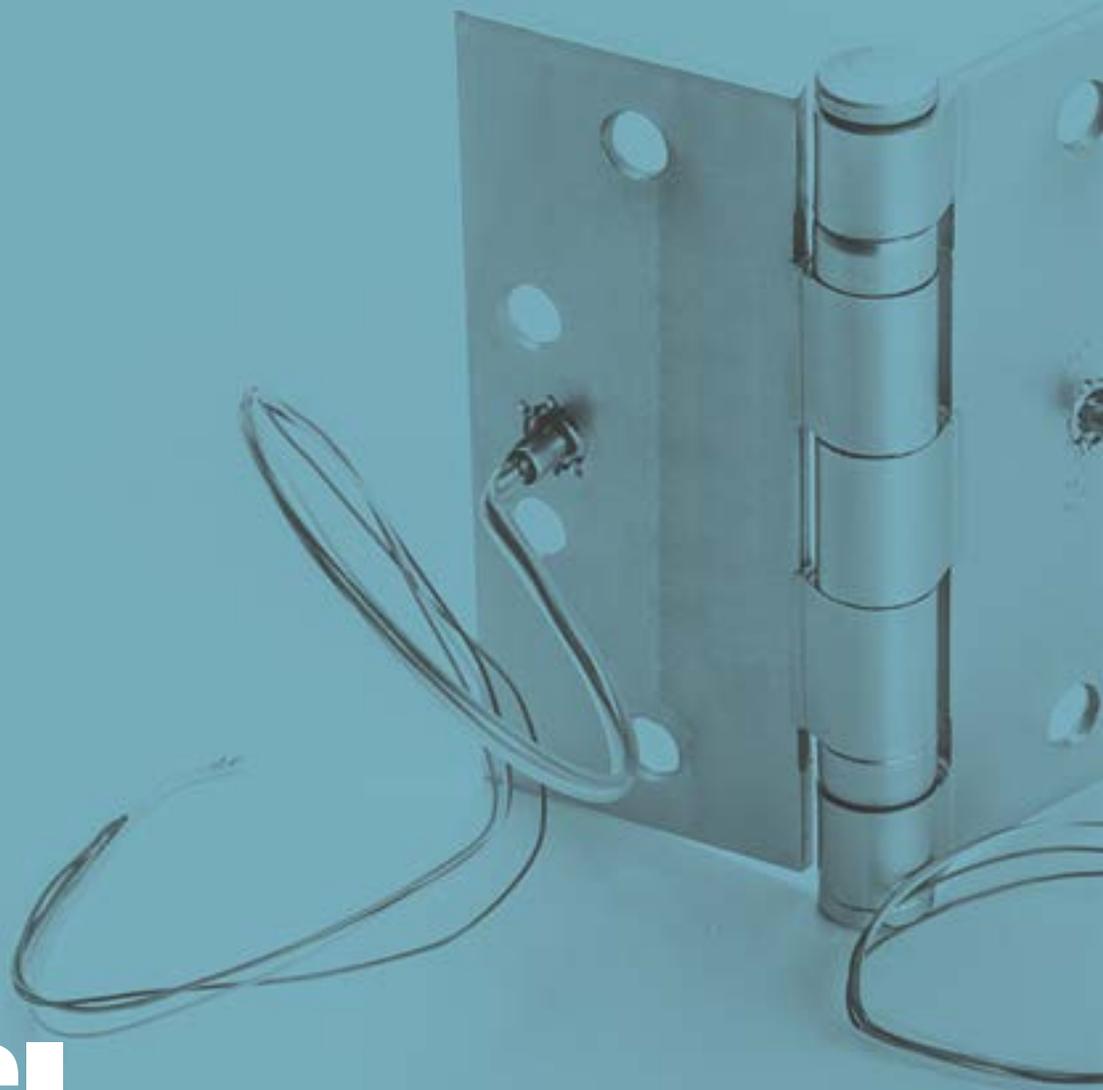


Series 1100

Electric Hinges/Pivots

Hager
Ives
McKinney
Stanley
PBB
Bommer
Rixson
ABH
and more



ACSI

2720 Clark Avenue
St. Louis, MO 63103
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www.acsi-inc.com

1-800-753-5558

Series 1100 | Electric Hinges/Pivots

ACSI Series 1100 Electric Hinges/Pivots are designed for doors that require concealed low voltage power transfer, concealed electric monitoring or concealed low voltage power transfer with monitoring. ACSI Series 1100 products are UL Listed and carry a full one-year warranty.

Manufacturers

Hager, Ives, McKinney, Stanley, PBB, Bommer, Rixson, ABH, Dorma, Design Hardware, Don-Jo and more*

*Consult factory for manufacturers not listed

Options

- Custom wire lead lengths
- Universal Molex® Connectors
- Connectors available in Hager, ASSA or Ives specifications

Features

- UL Listed
- UL Fire Rating on steel and stainless electric hinges
- All architectural finishes in sizes 4x4 through 6x6
- **Hinges/Pivots in stock for same-day shipments**

Notes

- Electric hinge must be placed in the center position only.
- ACSI requires NON-NRP hinges for modification. Hinge pin is not field removable after modification.
- ACSI part #302-03-03 mortar guard is required for all application with grout-filled frames. Failure to install mortar guard will void the electric hinge warranty.

Comparison Chart

ACSI	STANLEY	HAGER	McKINNEY	IVES
1104	CE-54	ETW-4	CC-4	TW4
1106	CE-56	ETW-6	CC-6	TW6
1108	CE-58	ETW-8	CC-8	TW8
1110	CS	EMN	CS	MON
1114	CECS-54	ETM-4	CSCC-4	TW4M
1116	CECS-56	ETM-6	CSCC-6	TW6M
1118	CECS-58	ETM-8	CSCC-8	TW8M

Models Available

Model	Description
1102	Concealed electric through-wire (2 wire, 22ga)
1104	Concealed electric through-wire (4 wire, 28ga)
1106	Concealed electric through-wire (6 wire, 28ga)
1108	Concealed electric through-wire (8 wire, 28ga)
1100-10	Concealed electric through-wire (10 wire, 28ga)
1100-12	Concealed electric through-wire (12 wire, 28ga)
1102x4	Concealed electric through-wire (2 wire, 22ga x 4 wire, 28ga)
1182*	Concealed electric through-wire (2 wire, 18ga)
1182x4*	Concealed electric through-wire (2 wire, 18ga x 4 wire, 28ga)
1182x6*	Concealed electric through-wire (2 wire, 18ga x 6 wire, 28ga)
1110	Concealed electric monitor
1114	Concealed electric monitor and through-wire (4 wire, 28ga)
1116	Concealed electric monitor and through-wire (6 wire, 28ga)
1118	Concealed electric monitor and through-wire (8 wire, 28ga)
1120*	Concealed air transfer hinge

* Not available in pivot modification

How to Order

Manufacturer's Model	ACSI Model
Stanley FBB179 4.5x4.5 26D	1104
Hager BB1279 5.0x4.5 10B	1108
Rixson M19 US26 LH	1110

Electrical Specifications

Concealed electric through-wire

- 22ga, 28ga conductors, 12 inch wire lead length both sides
 - 3.5A continuous @ 50VAC/VDC
 - 16A pulse @ 50VAC/DC
 - 400msec maximum pulse-width
 - 10sec minimum off-time between pulses
- 18ga conductors, 12 inch wire lead length both sides
 - 10A continuous @ 50VAC/VDC
 - 20A inrush @ 50VAC/DC for 4sec

Concealed electric monitor

- 0.5A @ 30VDC

1-800-753-5558



Series 1300

Door Controls

Mortise Keyswitches
Pushbutton Switches
Emergency Release
Door Position Sensors
Indicators
Digital Keypads

The ACSI logo is rendered in a large, bold, white sans-serif font. It is positioned on the left side of the page, overlapping the green background. The letters are thick and closely spaced, with the 'A' and 'C' being particularly prominent.

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Series 1300 | Door Controls

Mortise Keyswitches

ACSI Series 1310 Mortise Keyswitches are designed to control electric locks, electric strikes, electric exit devices and a variety of other control applications. The keyswitches allow keying the electrically controlled openings to facility master key systems. DPDT contacts unless otherwise noted.

Model	Description
1310-1	Single gang, wall mount
1310-2	Single gang, 2 LEDs (red and green), wall mount
1310-3	Adjustable time delay, double gang, SPDT contacts, wall mount
1310-3-1	Adjustable time delay, double gang, 1 LED (red or green), SPDT contacts, wall mount
1310-4	Narrow style, 1-3/4" frame mount
1310-4-2	Narrow style, 2 LEDs (red and green), 1-3/4" frame mount
1310-5	Audible alarm, double gang, wall mount
1310-5-2	Audible alarm, double gang, 2 LEDs (red and green), wall mount
1310-6	Single gang, 2 momentary switches, wall mount
1310-7	Single gang, 2 momentary switches, 1 LED (red or green), wall mount
1310-8	Single gang, 2 momentary switches, 2 LEDs (red and green), wall mount

**When ordering 1310 Keyswitches, specify momentary or maintained action.*

Pushbutton Switches

ACSI Series 1320 Pushbutton Switches provide a variety of functions for commercial and industrial door control applications. DPDT contacts unless otherwise noted.

Model	Description
1320-1	Single gang, wall mount
1320-2	Single gang, 1 LED (red or green), wall mount
1320-3	Single gang, 2 LEDs (red and green), wall mount
1320-4	Adjustable time delay, double gang, 1 LED (red or green), wall mount
1320-5	Mushroom button, single gang, SPDT contacts, wall mount*
1320-5-2	Mushroom button, single gang, 2 LEDs (red and green), SPDT contacts, wall mount*
1320-6	Narrow style, 1-3/4" frame mount
1320-6-2	Narrow style, 2 LEDs (red and green), 1-3/4" frame mount

**When ordering 1320 Pushbuttons, specify momentary or maintained action.*

Series 1300 | Door Controls

Emergency Release

ACSI 1330-3 Emergency Release provides manual emergency reporting; attractive/durable and finished in blue enamel.

Features

- UL Listed
- California State Fire Marshall approved
- Normally open or normally closed contacts
- Key resettable for increased security
- Designed for indoor or outdoor use
- Mounts in a standard single gang box
- Comes packaged with two spare keys, mounting hardware and one glass break tube

Model	Description
1330-3	Emergency Release

Door Position Sensors

ACSI Series 1335 Door Position Sensors are used to confirm door position. Magnetic sensors mounted in the frame react to the proximity of the magnet mounted in the door. Pneumatic models also available for use in hazardous locations.

Model	Description
1335-1	D.P.S. Standard mortise, SPDT, N.O./N.C. contacts
1335-2	D.P.S. ANSI, SPDT, N.O./N.C. contacts
1335-3	D.P.S. 1" Recessed mount, SPDT, N.O./N.C. contacts
1335-4	D.P.S. Standard mortise, DPDT, N.O./N.C. contacts
1335-5	D.P.S. ANSI, DPDT, N.O./N.C. contacts
1335-6	D.P.S. 1" Recessed mount, DPDT, N.O./N.C. contacts

Indicators

ACSI Series 1340 Indicators provide visual or audible indication of system status.

Model	Description
1340-1	Single gang, 1 LED (red or green), wall mount
1340-1-2	Single gang, 2 LEDs (red and green), wall mount
1340-2	Audible alarm, single gang, wall mount
1340-3	High security audible alarm, single gang, wall mount

Electrical Specifications

1310/1320 Switches

- Contacts Rated 1A @ 30VDC

1330-3 Emergency Release Switch

- Separate N.O./N.C. Outputs
- Can be wired for SPDT Contact Configuration
- Contacts Rated 1A @ 30VDC

1340-2 & 1340-3 Audible Alarm

- DC Voltage Range: 4V - 28V
- DC Current Range: 3mA - 16mA
- Frequency: 2900 Hz
- Sound Intensity: 64dB @ Min.V; 76dB @ Max.V

Red/Green LED Indicator used with 1310/1320/1340 Controls

- 20mA @ 24VDC

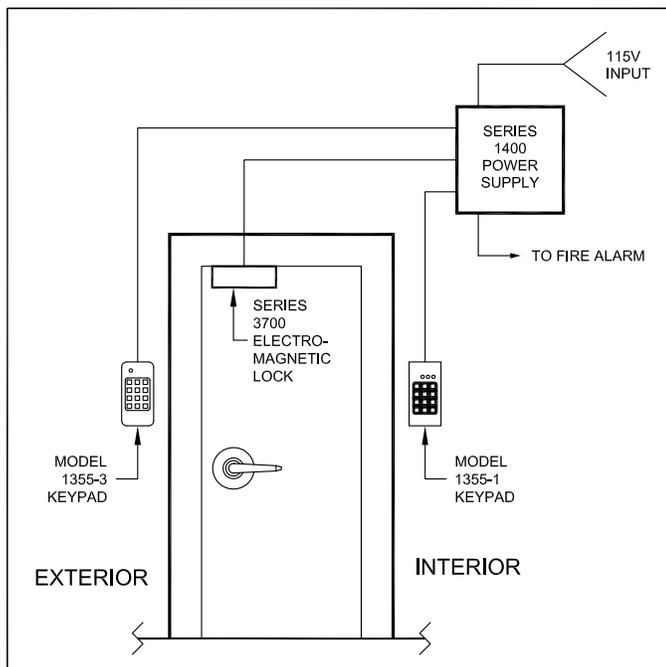
Series 1300 | Door Controls

Digital Keypads

ACSI Series 1355 Digital Keypads offer proven reliability for commercial, industrial and residential applications. The keypads are designed to control any electric locking device.

Features

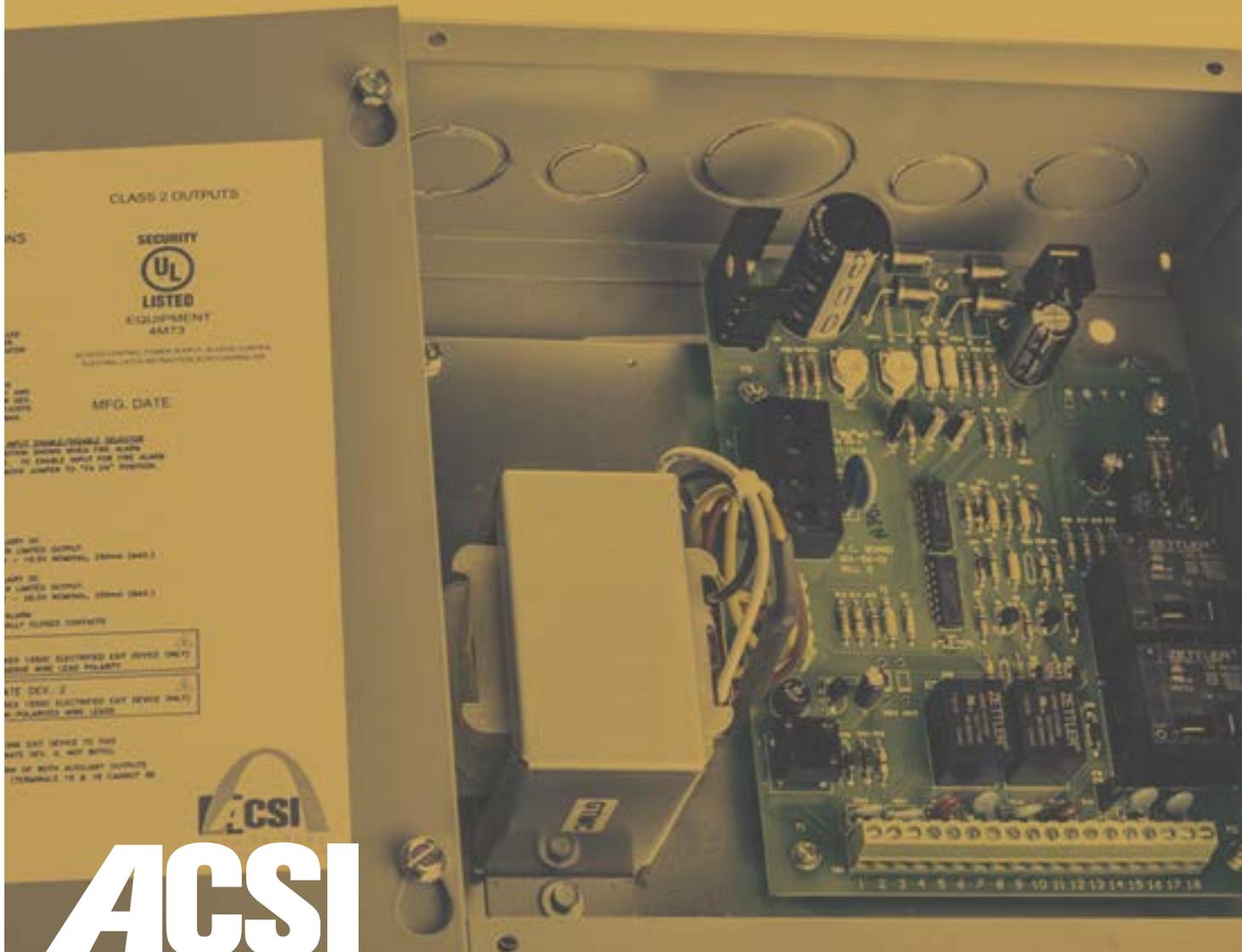
- Keypad programmable
- 10-30 VDC; 12-24VAC-auto adjusting (12-24VAC/DC for 1355-5)
- 120 user capability
- Codes can be 1 to 6 digits including repeated digits
- 1-90 sec. adjustable relock delay (1-255 sec. for 1355-6)
- LED status indicators (for all models except 1355-4)
- Request-to-exit switch input
- Main relay ON/OFF latching (toggle mode)
- Panic output (for all models except 1355-5 and 1355-6)
- Remote alarm panel interface capability
- Main relay: 5A, form C @ 24VDC with 10A surge (2A for 1355-3, 1355-4 and 1355-6)
- Non-volatile memory remembers codes and instructions when power is removed



Model	Description
1355-1	Digital Indoor Keypad
1355-2	Weather Resistant Keypad
1355-3	Sealed Environmental Keypad <ul style="list-style-type: none"> • Weather resistant, self-contained metal housing • Vandal resistant • Small design suitable for commercial, industrial and residential applications
1355-4	Ruggedized Digital Keypad <ul style="list-style-type: none"> • Weather resistant, self-contained metal housing • Vandal resistant • One piece housing suitable for wall, post or gooseneck mounting • Internal audible multi-status indicator (sounder) • Available in white or black
1355-5	Mullion Digital Keypad <ul style="list-style-type: none"> • Weather resistant for outdoor as well as indoor applications • Backlit hardened keys • Doorbell key with associated relay output • Narrow style suitable for aluminum door frame mounting • Available in bronze or satin aluminum
1355-6	Indoor/Outdoor Backlit Keypad <ul style="list-style-type: none"> • Weather resistant • Illuminated backlit hardened keys • Flush mount design • Includes audible indicator (sounder)
1355-7	Harsh Environment Keypad <ul style="list-style-type: none"> • Vandal and weather resistant case • Indoor/outdoor applications • Touch sensitive flat key design • 12/24 volts AC/DC jumper selectable

Series 1400

Power Supplies



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Series 1400 | Power Supplies

1406/1426 Power Supplies

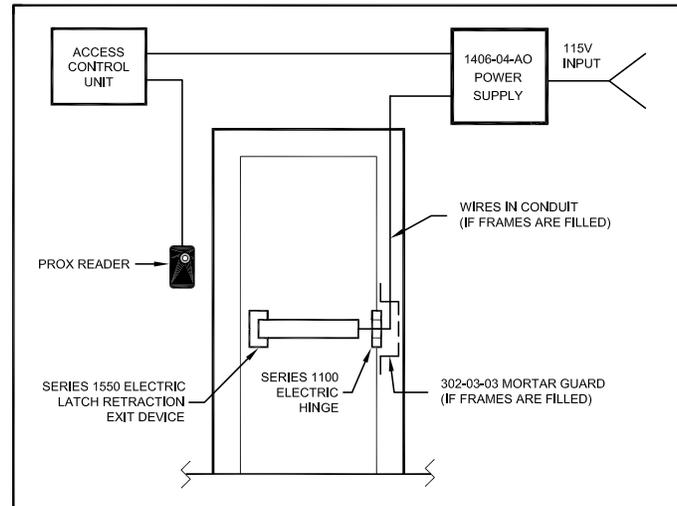
ACSI 1406 and 1426 Power Supplies are designed to operate exit devices equipped with ACSI Series 1550 Electric Latch Retraction (required with 1550 Electric Solenoid Latch Retraction).

Features

- UL Listed and tested to UL 294 standard
- Class 2 rated outputs
- 2A load capacity
- Overload, over voltage, and short circuit protection
- 1406 Series only: select from independent control of single exit devices from separate inputs (one or two single doors) or sequential operation of two exit devices from a single input (pair of doors)
- Automatic door operator interface
- Fire alarm interface
- Field adjustable latch retraction time delay
- 24VDC, 12VDC* constant voltage outputs (250mA each)

**Not available in battery backup models*

ACSI 1406 Application



Day/Night Mode-ACSI 1426 Power Supply

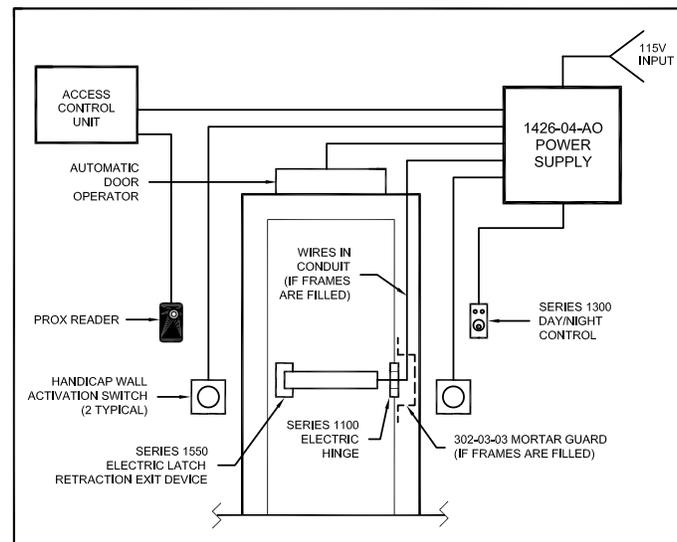
Provides a separate input for retracting one exit device or two exit devices sequentially without activating the automatic door operator. While the latches are held retracted, the auto-operator can be activated independently from a different input.

1406BB/1426BB Power Supplies with Battery Backup

All the same features as above, but includes built-in battery backup power:

- 4 hours of backup power at full load during AC power failure
- Standby battery power with a supervised AC failure output and low battery output
- Supplied with (2) 12V, 7Ah lead acid batteries

ACSI 1426 Application



1406



1406BB

1-800-753-5558



Series 1400 | Power Supplies

1410 Interlock Power Supply

ACSI 1410 Interlock Power Supply is designed to interconnect two or more doors using fail safe locking devices. Each supply can control up to four doors and the system can be expanded for requirements in excess of four doors. Any one door can be programmed to be a part of (common to) as many as three separate interlocking systems. Separate plug-in p.c. boards used to control interlocking doors can be programmed for normally locked or normally unlocked operation.

Inputs are available for fire alarm and optional emergency release interface for override of the interlocking system. Applications include darkrooms, laboratories, pharmaceuticals, detention centers, money counting rooms, airlocks, clean rooms, etc.

ACSI system engineers are available for design and consultation services to coordinate all aspects of the system. ACSI electric locking systems and all documentation including riser diagrams and point-to-point wiring diagrams can give distributors a single source for their system requirements.

Features

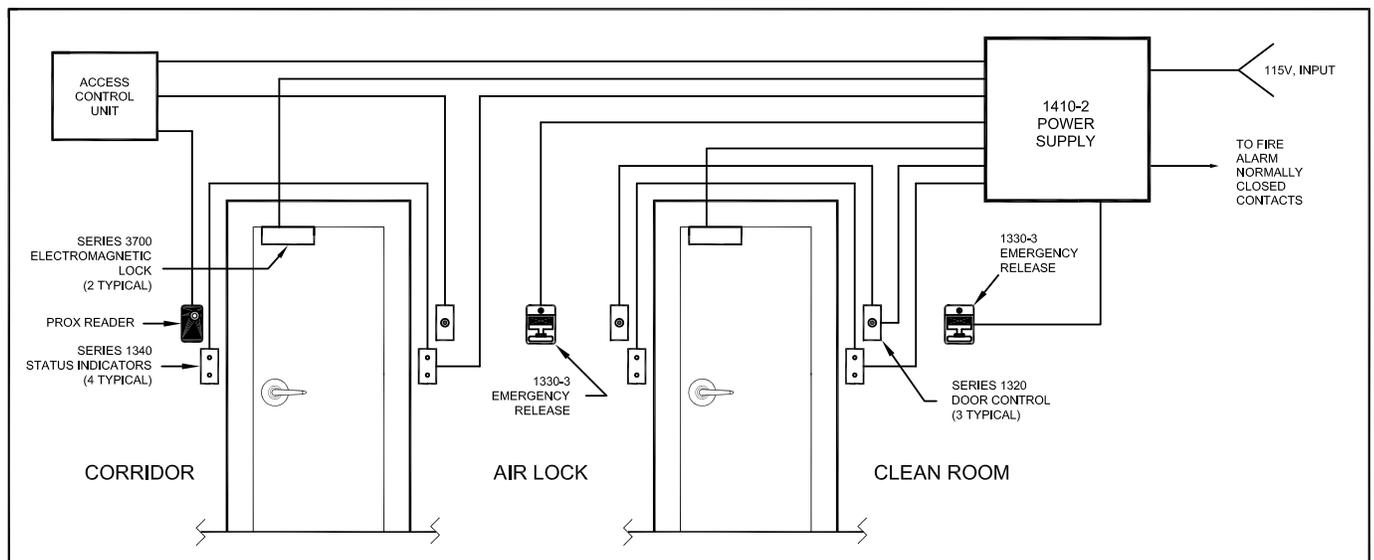
- UL Listed and tested to UL 294 standard
- Filtered/Regulated 24VDC
- Class 2 rated outputs
- 2.2A load capacity
- Overload, over voltage, and short circuit protection
- Automatically accepts 120VAC or 240VAC input



1410

Model	Description
1410-2	2 Door Interlock
1410-3	3 Door Interlock
1410-4	4 Door Interlock

ACSI Interlock System



Series 1400 | Power Supplies

1420 Power Supply

ACSI 1420 Power Supply can be used in the following applications:

- Provide power/control to exit devices equipped with the ACSI Series 1550-MD Motor Drive Electric Latch Retraction. (See ACSI Series 1500 Electric Exit Device Catalog)
- Provide power/control to electrified door hardware in applications requiring automatic door operator interface.

Features

- UL Listed and tested to UL 294 standard
- Filtered/Regulated 24VDC
- Class 2 rated outputs
- 2A load capacity
- Overload, over voltage, and short circuit protection
- Automatically accepts 120VAC or 240VAC input

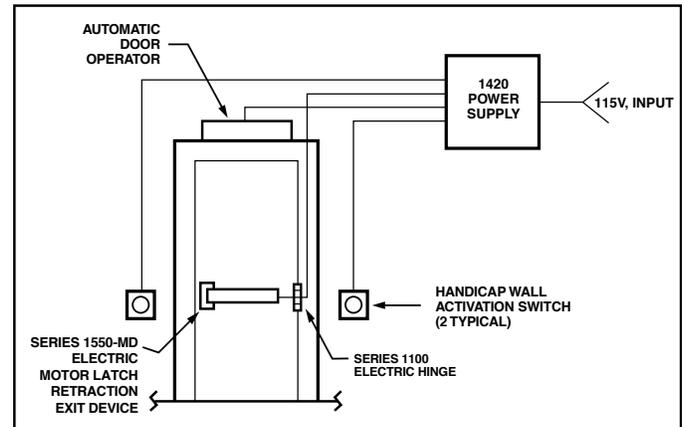
Each 1420 Includes

- Separate inputs for activation switch on entry and exit sides of the opening.
- Relay dry contact output to automatic door operator input.
- Built-in 0.5 second time delay between activation of the electrified door hardware and automatic door operator.
- Input for optional fire alarm or emergency release switch when urgent unlocking of door is required.
- Auxiliary 24VDC constant voltage output
- Separate 24VDC outputs for fail safe and fail secure electrified door hardware.

Options

DN – Day/Night mode provides a separate input for retracting one exit device or two exit devices simultaneously without activating the automatic door operator. While the latches are held retracted, the auto-operator can be activated independently from a different input.

ACSI Automated Door Opening System



1420

Series 1400 | Power Supplies

1440 Power Supply

ACSI 1440 Power Supply provides power for fail safe or fail secure locking devices.

Features

- UL Listed and tested to UL 294 standard
- Filtered/Regulated 24VDC
- Class 2 rated outputs
- 2A load capacity
- Overload, over voltage, and short circuit protection
- Surge suppression on fail safe and fail secure outputs
- Automatically accepts 120VAC or 240VAC input

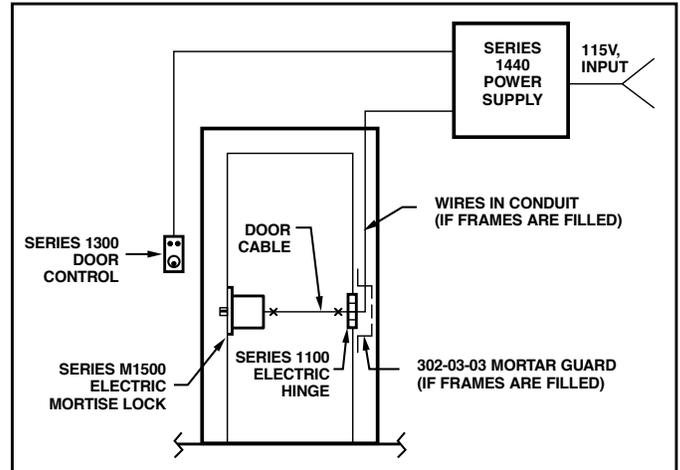
Each 1440 Includes

- Interface relay to isolate the locking device current from the control switch
- Auxiliary 24VDC constant voltage for powering standalone devices such as keypads, motion detectors, status indicators, etc.
- Field terminal block set at 45° for ease of installation

Options

TD – Adjustable time delay for 1 second to 60 minutes

ACSI Locking System



1440

Series 1400 | Power Supplies

1451/1452 Power Supplies with Battery Backup

ACSI 1451 and 1452 Power Supplies can be used in the following applications:

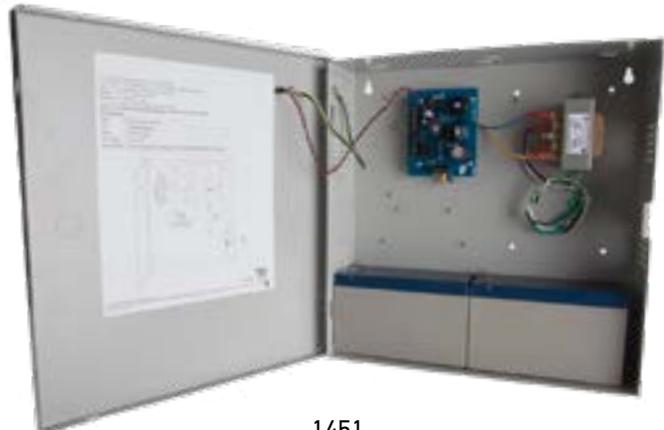
- Provide power/control to exit devices equipped with the ACSI Series 1550-MD Motor Drive Electric Latch Retraction. (See ACSI Series 1500 Electric Exit Device Catalog)
- Provide power/control to electrified door hardware in applications requiring automatic door operator interface.
- Provide power for fail safe or fail secure locking devices.

Features

- 1451-1A load capacity
- 1452-1.75A load capacity
- UL Listed for US and Canada
- Filtered/Regulated 12VDC or 24VDC
- Class 2 rated outputs
- Fire alarm interface
- Overload and short circuit protection
- Automatic switchover to standby battery when AC fails
- Built-in battery charger
- Supplied with (2) 12V, 7Ah lead acid batteries

Options

- TD – Adjustable time delay for 1 second to 60 minutes
- DN – Day/Night mode provides a separate input for retracting one exit device or two exit devices simultaneously without activating the automatic door operator. While the latches are held retracted, the auto operator can be activated independently from a different input.
- AO – Automatic Operator Interface



1451



1452

Series 1400 | Power Supplies

1490 Delayed Egress Power Supply

ACSI 1490 Power Supply is designed to interface with ACSI electromagnetic locks in a delayed egress locking application.

Features

- UL Listed
- Compliance with NFPA code requirements
- Filtered/Unregulated 24VDC
- 2A load capacity
- Input for delayed egress activation
- Manual reset of delayed egress alarm
- Optional auto reset available
- Fire alarm interface
- Output for audible alarm
- Field adjustable delay for nuisance alarm, door release, request-to-exit and auto reset delay times
- One power supply can provide up to 4 delayed egress alarm zones

Description of System Operation

The delayed egress alarm becomes activated when the push bar of the Series 1500 modified exit device is depressed. A concealed AE (request-to-exit) switch initiates an irreversible cycle that begins with the Series 1300 audible alarm sounding for a predetermined time (field adjustable) while the Series 3700 electromagnetic lock remains energized locking the door.

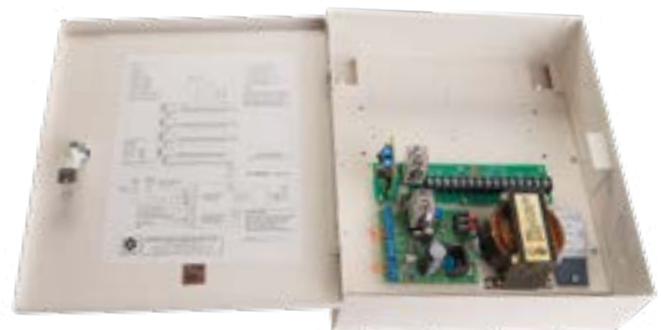
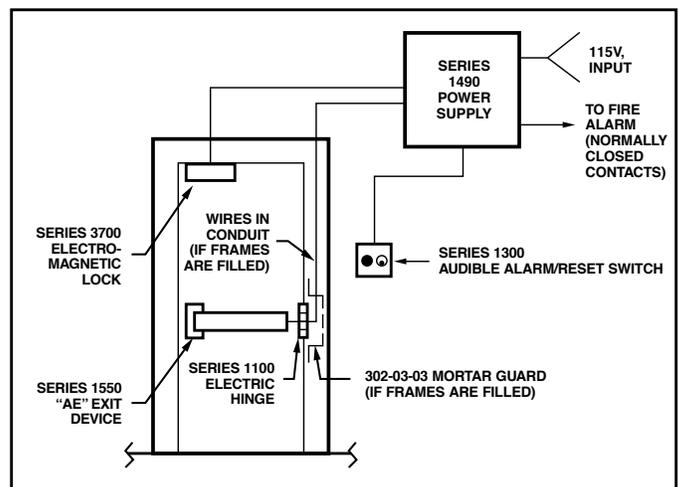
At the end of the timing cycle, the electromagnetic lock de-energizes and unlocks the door while the audible alarm continues sounding. The door will remain unlocked and in an alarm state until manually reset by the Series 1300 keyswitch. Resetting the system will lock the door by energizing the electromagnetic lock and will turn off the audible alarm.

Note: When using the system with a door position switch, the door must be fully closed prior to resetting the system. Resetting with the door open will energize the electromagnetic lock, but will not turn off the audible alarm. The audible alarm will also begin sounding if a forced entry occurs while the system is armed.

In the event of a fire alarm, the electromagnetic lock will immediately de-energize to unlock the door. Upon resetting the fire alarm, the system will return to normal standby operation.

Model	Description
1490-21	1 zone card
1490-22	2 zone cards
1490-23	3 zone cards
1490-24	4 zone cards

ACSI 1490 Application



1490-21

Series 1400 | Power Supplies

Series 1400 Power Supply Specifications

ACSI Series 1400 Power Supplies are designed and manufactured by ACSI engineers to operate a variety of electric locking devices that will meet the most sophisticated specifications.

ACSI system engineers are available to assist you in the selection of the power supply that best meets your application. All ACSI designed systems include riser diagrams and point-to-point wiring diagrams that allow ease of interface with life-safety and security systems.

Input

1406, 1426, 1490

120VAC, 0.75A, 60Hz

1406BB, 1426BB

120VAC, 1.08A, 60Hz

1410, 1420, 1440, 1400-6100

120VAC, 0.9A, 50/60Hz

240VAC, 0.6A, 50/60Hz

1451

115VAC, 0.6A, 50/60Hz

1452

115VAC, 0.6A, 50/60Hz

Output

1406, 1426

1550 Device Outputs: 40VDC, 1.5A (combined) Filtered/Unregulated

Auxiliary 24V Output: 24VDC, 0.25A Filtered/Regulated

Auxiliary 12V Output: 12VDC, 0.25A Filtered/Regulated

1406BB, 1426BB

1550 Device Outputs: 40VDC, 1.8A (combined) Filtered/Unregulated

Auxiliary 24V Output: 24VDC, 0.2A Filtered/Regulated

1490

24VDC, 2A Filtered/Unregulated

1420, 1440, 1400-6100

24VDC, 2A Filtered/Regulated

1410

24VDC, 2.2A Filtered/Regulated

1451

24VDC, 1A Filtered/Regulated

1452

24VDC, 1.75A Filtered/Regulated

Enclosure Dimensions/Type

1406, 1410, 1420, 1426, 1440, 1400-6100

10"x10"x4", NEMA Type 1 Screw Cover Junction Box

1406BB, 1426BB

12"x16"x4", NEMA Type 1 Screw Cover Junction Box

1490

12"x14"x4", Surface Mount Cabinet w/Hinged Door and Keyed Lock

1451, 1452

13.5"x13"x3.25", Surface Mount Cabinet w/Hinged Door and Cam Key Lock

Enclosure Weight

1410

9 lbs (with all four plug-in boards installed onto motherboard)

1406, 1426

12 lbs

1406BB, 1426BB

26 lbs (with batteries)

1420, 1440, 1400-6100

8 lbs

1490

15 lbs (with all zone cards installed)

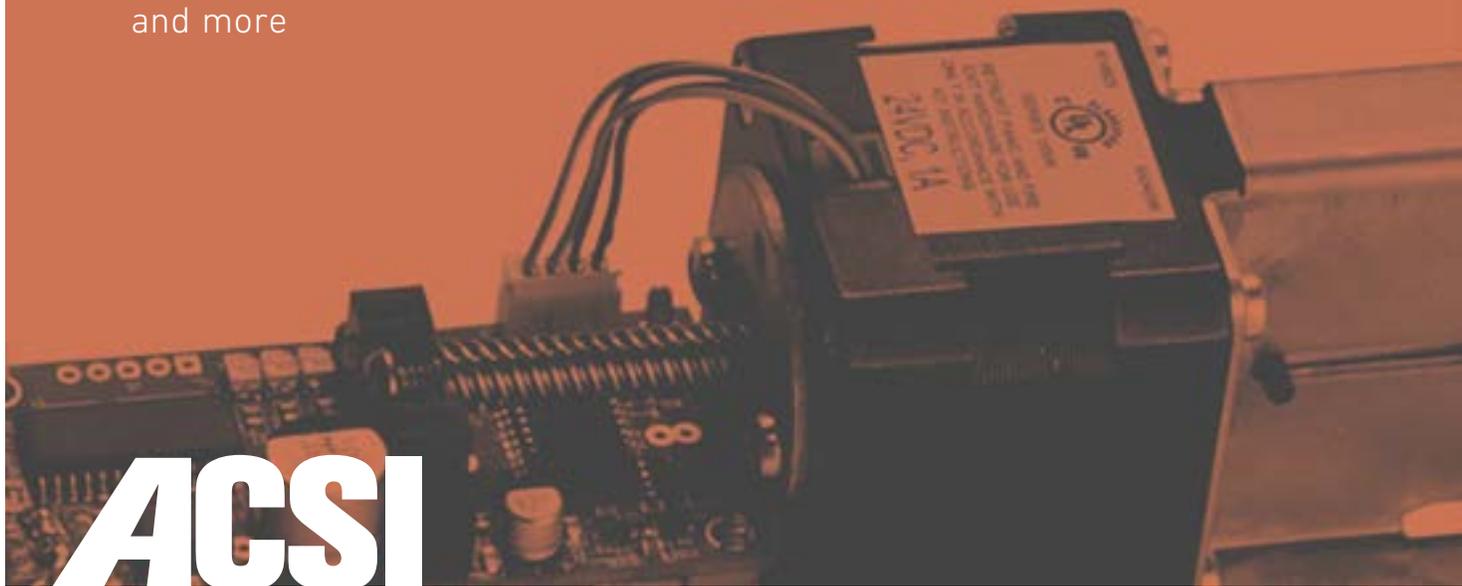
1451, 1452

18 lbs (with batteries)

Series 1500

Electric Exit Devices

Von Duprin
Corbin Russwin
Sargent
Yale
Dorma
Hager
Jackson
Stanley Commercial
Precision
Design Hardware
PDQ
First Choice
Falcon
Arrow
and more



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Series 1500 | Electric Exit Devices

You supply the exit device and ACSI supplies high quality UL Listed modifications to a wide range of manufacturers' exit devices. ACSI engineers and technicians are available to provide system design, wiring diagrams, and a variety of technical services.

1550-MD Electric Motor Latch Retraction

ACSI Series 1550-MD Electric Motor Latch Retraction modification/kit provides a remote means of locking or unlocking exit devices.

- Simultaneous electric latch retraction and dogging (push bar depressed)
- UL Listed for both panic and fire exit hardware
- Available for mortise, rim, concealed and surface vertical rod exit devices
- Field or factory installed
- Quiet operation
- Continuous duty rated
- Low power consumption
- 24VDC operation
-ACSI Series 1400 power supplies recommended
- Interface with life-safety systems
- Non-polarized leads
- On-board diagnostic LEDs
- Automatic retry



1550K-MDS



1550K-MDV



1550K-MDC



1550K-MDF



1550K-MDT



1550K-MDD



1550K-MDP



1550K-MDH



1550K-MDO

Model	Manufacturer's Series
1550K-MDV	Von Duprin 33A/35A, 98/99
1550K-MDV22	Von Duprin 22
1550K-MDC	Corbin Russwin ED4000, ED5000, Yale 7000
1550K-MDD	Dorma 9000
1550K-MDT	Hager 4500, 4600 PDQ 6200 Stanley Commercial QED100, QED200, QED300
1550K-MDO	Falcon 1690, 1790 First Choice 3600, 3700
1550K-MDS	Sargent 80 Arrow 1000, 3000, 4000
1550K-MDP	Precision 2000, 5000
1550K-MDF	Falcon 24, 25
1550K-MDH	Design Hardware 1000
1550K-MDX	Dorex 9500
1550-MDA*	Adams Rite 3000, 8000
1550-MDR*	Regent 5700
1550-MDJ*	Jackson 20

*Not available as a field installable kit.

1-800-753-5558



Series 1500 | Electric Exit Devices

1550 Electric Solenoid Latch Retraction

ACSI Series 1550 Electric Solenoid Latch Retraction modification provides a remote means of locking or unlocking exit devices.

- UL Listed for both panic and fire exit hardware
- Available for mortise, rim, concealed and surface vertical rod exit devices
- Continuous duty rated
- Interface with life-safety systems
- Standard ACSI Series 1550 System includes:
 - 1) ACSI Series 1550 exit device modification
 - 2) ACSI Series 1406 or 1426 power supply (required)
 - 3) ACSI Series 1100 electric hinge (no special unsightly power transfer required)
- 1550K-VD is a field installable kit for Von Duprin 33A/35A and 98/99 exit devices

Note: Electrified vertical rod exit devices are UL Listed to operate properly on doors not exceeding 48 inches wide and 96 inches tall.

1560/1570 Electric Trim Control

ACSI Series 1560/1570 Electric Trim Control modification provides a remote means of locking or unlocking outside lever handle trims of exit devices.

- Fail Safe (Power Lock)
 - Outside trim is locked when power is applied and unlocked when power is removed. Trim control will unlock in the event of a power failure.
- Fail Secure (Power Unlock)
 - Outside trim is unlocked when power is applied and locked when power is removed. Trim control will lock in the event of a power failure.
- Continuous duty rated
- Low power consumption
- 24VDC, 24VAC, 12VDC, or 12VAC operation
 - ACSI Series 1400 power supplies recommended
- Interface with life-safety systems

1540 Electric Dogging

ACSI Series 1540 Electric Dogging modification provides quiet egress when electrically dogged. When energized, first time mechanical depression of the push bar will continuously hold the push bar depressed and the latch bolt retracted. When power is removed or interrupted, the push bar is released and the latch bolt will extend.

- UL Listed for both panic and fire exit hardware
- Available for mortise, rim, concealed and surface vertical rod exit devices
- Continuous duty rated
- Low power consumption
- 24VDC operation
 - ACSI Series 1400 power supplies recommended
- Interface with life-safety systems

1510/1520 Electric Mortise Exit Control

ACSI Series 1510/1520 Electric Mortise Exit Control modification provides a remote means of locking or unlocking mortise exit devices.

- UL Listed
- Fail Safe (Power Lock)
 - Outside trim is locked when power is applied and unlocked when power is removed. Lockset will unlock in the event of a power failure.
- Fail Secure (Power Unlock)
 - Outside trim is unlocked when power is applied and locked when power is removed. Lockset will lock in the event of a power failure.
- Continuous duty rated
- Low power consumption
- 24VDC, 24VAC, 12VDC, or 12VAC operation
 - ACSI Series 1400 power supplies recommended
- Interface with life-safety systems



1550K-VD-4



1570-996L-24V AC/DC

Series 1500 | Electric Exit Devices

Electric Trim Control

ACSI stocks Von Duprin electrified 996L exit trim controls.

RE/VR 1560 996L 24VAC/DC 626	Von Duprin – Fail Safe
RE/VR 1560 996L 24VAC/DC 613	Von Duprin – Fail Safe
RE/VR 1570 996L 24VAC/DC 626	Von Duprin – Fail Secure
RE/VR 1570 996L 24VAC/DC 613	Von Duprin – Fail Secure

Note: Available in 12 volt

Electric Exit Device Modification Listing

Note: If you do not find the lock of your choice listed, please consult with our factory engineering staff. We may request that you send a sample for further evaluation.

Arrow	Corbin Russwin	Dorma	Falcon	Precision	Sargent	Von Duprin	Yale
1000, 3000	ED4000	9000	24*, 25*	2000*	80	33A/35A**	7000
4000	ED5000		1690*, 1790*	5000*		22*, 98/99**	
Adams Rite	Design Hardware	Hager	Jackson	PDQ	Regent	Stanley Commercial	
3000	1000	4500	20*	6200	5700	QED100, QED200, QED300	
8000		4600					
Dorex	First Choice						
9500*	3600*, 3700*						

**Available in 1550-MD (Motor Drive) only.*

*** Not available in Von Duprin 48 function.*

Solenoid Electric Latch Retraction Comparison Chart

Manufacturer	Latch Retraction Part #	Power Supply Part #	Latch Bolt Monitor Part #	Request-to-Exit Part #
ACSI	1550	1406	LM	AE
Von Duprin	EL	PS873	LX	RX
Yale	P	781N	S	B
Corbin Russwin	M94	781N	M91	M92
Precision	ELR	ELR150	LS	SS
Dorma	ES	ES100	LM	MS
Adams Rite	EL, LR	PS-LR	LM	M1
Hager	ELR, EL	2901/2902		RX

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Series 1500 | Electric Exit Devices

How to Order

1 EXIT DEVICE	2 MODIFICATION #	3 LOCK PART #	4 OPERATING VOLTAGE	5 OPTIONS	6 QUICK CONNECT SYSTEM	7 HANDING
RE	1550-MD	FULL PART	24VDC	AE	QC1	LHR
VR	1550*	NUMBER	24VAC/DC	LM	QC2	RHR
ME	1560		12VDC		QC3	
	1570		12VAC/DC			
	1540					
	1510					
	1520					

Examples:

1 EXIT DEVICE	2 MODIFICATION #	3 LOCK PART #	4 OPERATING VOLTAGE	5 OPTIONS	6 QUICK CONNECT SYSTEM	7 HANDING
RE	1550-MD	8800 (SARGENT)		LM	QC2	RHR
ME	1520	9975 (VON DUPRIN)	12VAC/DC		QC3	LHR
VR	1540	7120 (YALE)	24VDC	AE	QC1	RHR

1. Exit Device

(Select type of lock to be modified)

RE	Rim Exit Device
VR	Vertical Rod Exit Device
ME	Mortise Exit Device

2. Modification Number

(Select type of lock modification required)

1550-MD	Motor Latch Retraction
1550*	Solenoid Latch Retraction
1560	Fail Safe Trim Control
1570	Fail Secure Trim Control
1540	Dogging
1510	Fail Safe Mortise Exit Control
1520	Fail Secure Mortise Exit Control

*ACSI UL Listed 1406 or 1426 Power Supply must be used with ACSI 1550 Solenoid Latch Retraction Modifications.

3. Lock Part Number

Enter manufacturer's full lock part number

4. Operating Voltage

Required for 1510/1520/1560/1570 modifications

24VDC
24VAC/DC
12VDC
12VAC/DC

5. Options

AE	Authorized Egress Monitors the use of the push bar. The AE Switch can be used to: <ul style="list-style-type: none"> • Signal a control console when the push bar is depressed • Activate a door alarm • Control an electromagnetic lock for egress • Shunt a door alarm to allow egress
LM	Latch Bolt Monitor Monitors the full extension of the latch bolt or rods.

6. Quick Connect System

(Select type of system to be modified)

QC1	ACSI Quick Connect System
QC2	ASSA ElectroLynx® System
QC3	Allegion Connect System

7. Handing

RHR	Right Hand Reverse
LHR	Left Hand Reverse

1-800-753-5558

Series 1500 | Electric Exit Devices

Motor Electric Latch Retraction Comparison Chart

Manufacturer	Latch Retraction Part #	Power Supply Part #	Latch Bolt Monitor Part #	Request-to-Exit
ACSI	1550-MD	1420, 1440, 1451, 1452	LM	AE
Von Duprin	QEL	902	LX	RX
Sargent	56	3510	53	55
Dorma	MLR	PS532RF	LM	MS
Adams Rite	SE	PS-SE	LM	M1
Hager	MLR	2903, 2904	LM	RX
Corbin Russwin	MELR	BPS-24	M91	M92
Precision	MLR	RPSMLR2	LS	TS

Exit Device Switch Kits

ACSI Series K Switch Kits are field installed in exit devices. Series K Switch Kits include a SPDT (Single Pole Double Throw) switch assembly with long wire leads and easy-to-follow installation instructions. K Switch Kits may be used to:

- Provide instant release of magnetic locks for free egress
- Activate a door alarm
- Signal a control console when the push bar of an exit device is depressed
- Shunt a door alarm to allow free egress

Model	Manufacturer
K-100	Von Duprin 22, 33A/35A, 98/99
K-200	Von Duprin 22, 33A/35A, 98/99 (2-SPDT switches)
K-101	Von Duprin 55
K-102	Von Duprin 88
K-103	Sargent 80, Arrow 1000, 3000, 4000, Dorex 9500
K-203	Sargent 80, Arrow 1000, 3000, 4000, Dorex 9500 (1-DPDT switch)
K-104	Sargent 9600, 9700, 9800, 9900
K-105	Sargent 9300, 9400, 9500
K-106	Adams Rite 3000, 8000
K-107	Corbin Russwin 8000, Yale 2100
K-108	Jackson 1085, 1095
K-109	Corbin Russwin ED4000, ED5000, Yale 7000
K-110	Monarch 18, 19
K-111	Doromatic 990, 1090

Model	Manufacturer
K-112	Doromatic 1490, 1590
K-124	Precision 2000
K-125	Dorma 9000
K-126	Hager 4500, 4600, PDQ 6200, Stanley Commercial QED100, QED200, QED300
K-226	Hager 4500, 4600, PDQ 6200, Stanley Commercial QED100, QED200, QED300 (2-SPDT Switches)
K-128	Design Hardware 1000
K-129	Falcon 24, 25
K-130	Jackson 20
K-131	Falcon 1690, 1790
K-123	Latch Bolt Monitor for Von Duprin 33A/35A, 98/99
K-127	1550K-VD ELR Kit Latch Bolt Monitor for Von Duprin 33A/35A, 98/99

Series 1500 | Electric Exit Devices

Electrical Specifications

1550-MD Motor Latch Retraction

- 24VDC, 1A Inrush, 400mA Holding

1550 Solenoid Latch Retraction

- Must use ACSI 1406 or 1426 Power Supply (see ACSI series 1400 catalog for output voltages)

1510/1520

- 12VAC/DC, 612mA
- 24VAC/DC, 330mA

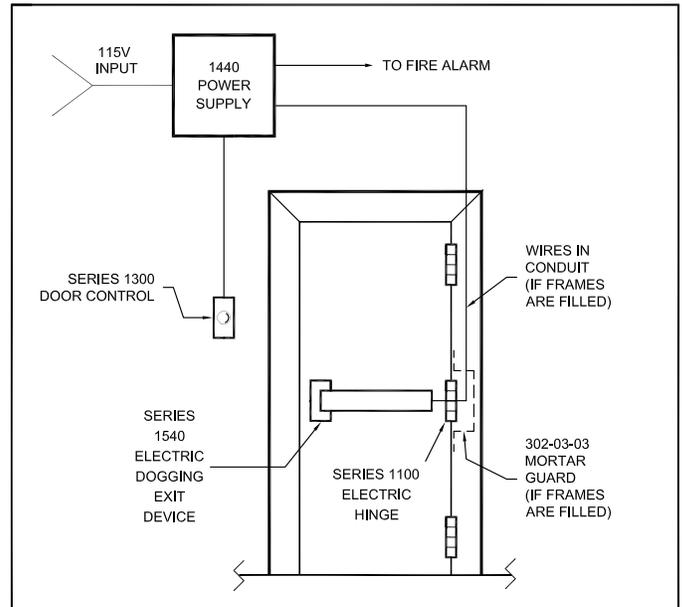
1540

- 24VDC, 225mA

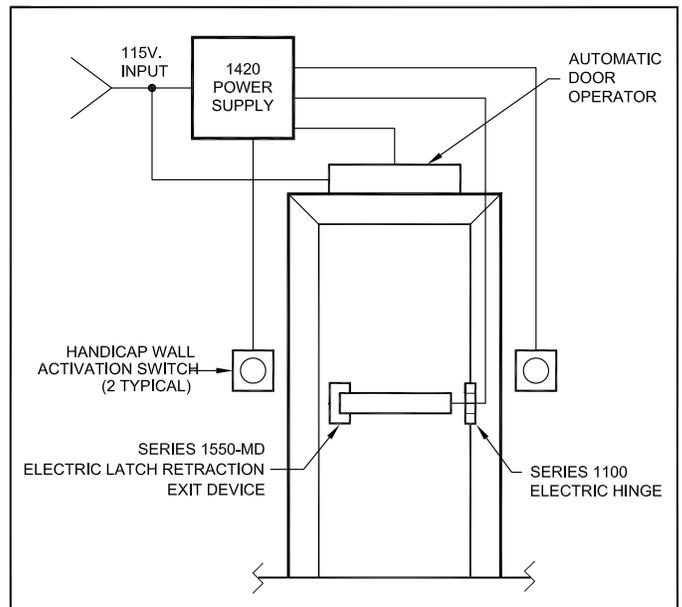
1560/1570

- 12VAC/DC, 612mA
- 24VAC/DC, 330mA

Series 1540 Typical Installation



ACSI Automated Door Opening System



Series 1500

Electric Locks

Schlage

Corbin Russwin

Sargent

Yale

Best

Hager

Stanley Commercial

PDQ

Falcon

Arrow

Design Hardware

Tell

Baldwin

and more

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Series 1500 | Electric Locks

ACSI supplies high quality UL Listed modifications to a wide range of manufacturers' locksets. Series 1500 electric locks provide safety and security for stairtower doors or controlled areas where both locking and latching are required. The Series 1500 locks allow remote electric locking or unlocking while conforming to life-safety codes. Series 1500 locks are available in motor-controlled or solenoid-controlled in both mortise and cylindrical locks.

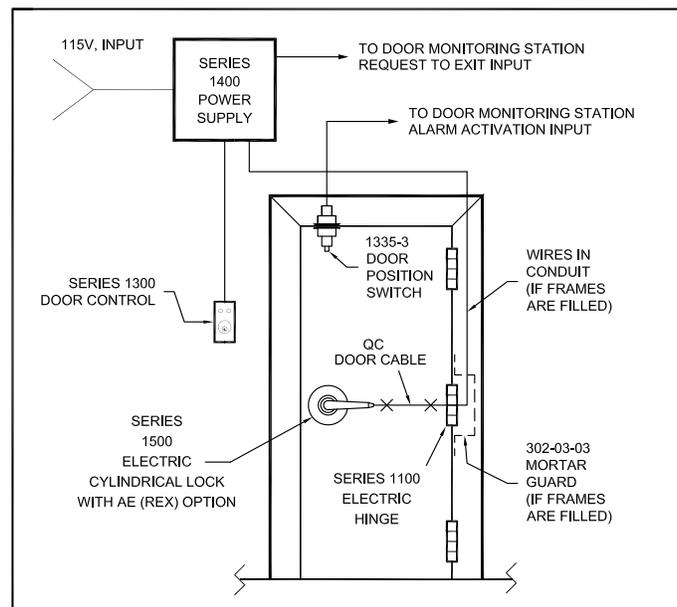
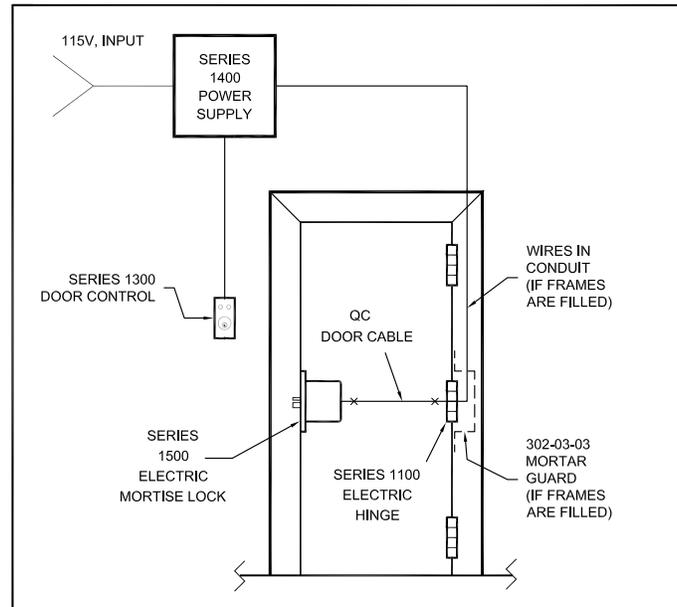
Features

- UL Listed
- California State Fire Marshall approved
- Fail Safe (Power Lock)
 - Outside trim is locked when power is applied and unlocked when power is removed (storeroom function when energized). Lockset will unlock in the event of a power failure (passage function).
- Fail Secure (Power Unlock)
 - Outside trim is unlocked when power is applied and locked when power is removed. Lockset will lock in the event of a power failure.
- Simple user selectable fail safe/fail secure operation in motor-controlled locks
- Continuous duty rated
- Low power consumption
- 24VDC, 24VAC, 12VDC or 12VAC operation
 - Automatic 12V or 24V, AC or DC operating voltage for motor-controlled locks.
 - ACSI Series 1400 power supplies recommended
- When key cylinders are provided in the locks, the latch bolt may be momentarily retracted with key even though electrically locked. **Note:** Locks that are electrically unlocked may not be locked via the key cylinder.
- Wide variety of monitoring options are available
- Interface with life-safety systems

Applications

Doors in stairtowers, offices, classrooms, interlocks, elevator lobbies, laboratories, computer rooms, cashier stations, hospital equipment rooms, pharmaceutical storage rooms

Typical Installation



Series 1500 | Electric Locks

How to Order

1 LOCK TYPE	2 MODIFICATION #	3 OPTIONS	4 LOCKING	5 LOCK PART #	6 OPERATING VOLTAGE	7 QUICK CONNECT SYSTEM	8 HANDING
M	1520M	AE	1	FULL	12/24V	QC1	RH
C	1510M	LM	2	PART	24VDC	QC2	LH
MU	1520	SM		NUMBER	24VAC/DC	QC3	RHR
	1510	DM			12VDC		LHR
	1500	DMS			12VAC/DC		
		DPS					

Example:

LOCK TYPE	MODIFICATION #	OPTIONS	LOCKING	LOCK PART #	OPERATING VOLTAGE	QUICK CONNECT CABLE	HANDING
M	1520M	AE	1	L9070 (SCHLAGE)	12/24V	QC3	RH

1. Lock Type

(Select type of lock to be modified)

M	Mortise Lock
C	Cylindrical Lock
MU	Unit Lock

2. Modification Number

(Select type of lock to be modified)

1520M	Fail Secure Motor-Controlled*
1510M	Fail Safe Motor-Controlled*
1520	Fail Secure Solenoid-Controlled
1510	Fail Safe Solenoid-Controlled
1500	Monitor Only

*Factory ships Fail Secure as default (unless specified Fail Safe).
Field selectable to Fail Safe.

3. Options

AE	Authorized Egress (Mortise or Cylindrical Lock) Monitors the use of the INSIDE trim when the OUTSIDE trim is locked. The AE switch can be used to: <ul style="list-style-type: none"> • Shunt a door alarm to allow egress • Signal a control console when the trim is activated • Activate a door alarm • Control an electromagnetic lock for egress
LM	Latch Bolt Monitor (Mortise Lock) Monitors the full extension of the main latch.
SM	Security Monitoring (Mortise Lock) Monitors the locked or unlocked status and the dead latch status in series.
DM	Deadbolt Monitor (Mortise Lock) Monitors the full extension of the deadbolt.
DMS	Deadbolt Monitor Secured (Mortise Lock) Monitors the full extension of the deadbolt disabling the electrical control of a fail secure lockset locking the OUTSIDE trim. Retracting the deadbolt will enable the electrical control. Free egress at all times. <ul style="list-style-type: none"> • Uses include private rooms, restrooms, and lactation rooms.
DPS	Door Position Sensor (Mortise Lock) Monitors the door position. A magnetic sensor mounted in the mortise lock reacts to the proximity of a magnet mounted behind the ASA strike.
MK-10	Authorized Egress Kit Field installable for Schlage L series mortise lock.

Series 1500 | Electric Locks

How to Order (Cont.)

4. Locking

1	Standard control locks outside (secure side) trim.
2	Locks both sides – mortise locks only.

5. Lock Part No.

Distributors supply ACSI with mortise, cylindrical or unit locks for modification. Please supply the lock manufacturer's full part number.

Example: L9070, 8237, 8808, ND80, 3357, etc.

Note: Refer to the last page of this catalog section for a complete listing of locks required by ACSI.

6. Operating Voltage

12/24V	Motor-Controlled Locks, automatic 12V or 24V, AC or DC operating voltage
24VDC	Solenoid-Controlled Locks
24VAC/DC	Solenoid-Controlled Locks
12VDC	Solenoid-Controlled Locks
12VAC/DC	Solenoid-Controlled Locks

Note: Mortise locks can be supplied with pneumatic control. Consult factory.

7. Quick Connect System

QC1	ACSI Quick Connect System
QC2	ASSA ElectroLynx® System
QC3	Allegion Connect System

8. Handing

RH	Right Hand
LH	Left Hand
RHR	Right Hand Reverse
LHR	Left Hand Reverse

Accessories

1580-1	AC/DC Converter
1580-2	Voltage Regulator <ul style="list-style-type: none"> Regulates source voltages up to 30VDC (35VAC) to a 24VDC output level Works with AC or DC source voltages Can be used with 24VAC/DC rated cylindrical or mortise locks up to 360mA. UL Listed

Series 1500 | Electric Locks

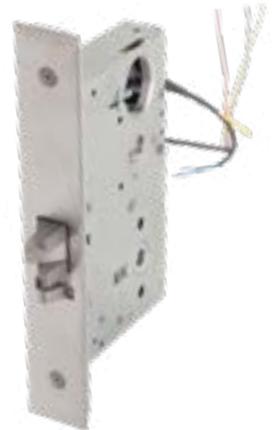
Electric Mortise Lock Bodies

ACSI Stocks Electric Mortise Lock Bodies available in Schlage, Corbin Russwin, Sargent, Yale, Best and Falcon. The locks are available as motor-controlled or solenoid-controlled. Motor-controlled locks are field selectable for fail safe or fail secure and have automatic 12V or 24V, AC or DC operation. Solenoid-controlled locks must be specified as fail safe or fail secure and 12VAC/DC or 24VAC/DC. A variety of monitoring options are available.

Motor-Controlled			
M1510M	L9070B	12/24V	Schlage Fail Safe
M1510M	2055B	12/24V	Corbin Russwin Fail Safe
M1510M	8237B	12/24V	Sargent Fail Safe
M1510M	8808B	12/24V	Yale Fail Safe
M1510M	MA561B	12/24V	Falcon Fail Safe
M1520M	L9070B	12/24V	Schlage Fail Secure
M1520M	2055B	12/24V	Corbin Russwin Fail Secure
M1520M	8237B	12/24V	Sargent Fail Secure
M1520M	8808B	12/24V	Yale Fail Secure
M1520M	MA561B	12/24V	Falcon Fail Secure
Solenoid-Controlled			
M1510	L9070B	24VAC/DC	Schlage Fail Safe
M1510	2055B	24VAC/DC	Corbin Russwin Fail Safe
M1510	8237B	24VAC/DC	Sargent Fail Safe
M1510	8808B	24VAC/DC	Yale Fail Safe
M1510	45H7RB	24VAC/DC	Best Fail Safe
M1510	MA561B	24VAC/DC	Falcon Fail Safe
M1520	L9070B	24VAC/DC	Schlage Fail Secure
M1520	2055B	24VAC/DC	Corbin Russwin Fail Secure
M1520	8237B	24VAC/DC	Sargent Fail Secure
M1520	8808B	24VAC/DC	Yale Fail Secure
M1520	45H7RB	24VAC/DC	Best Fail Secure
M1520	MA561B	24VAC/DC	Falcon Fail Secure



Sargent M1520M



Corbin M1520M



Schlage M1520M



Yale M1520M



Falcon M1520M



Best M1520

Electrical Specifications

M1510M / M1520M

- 12/24V, 250mA Inrush, 10mA Holding

M1510 / M1520

- 12VAC/DC, 612mA
- 24VAC/DC, 330mA

MU1510 / MU1520

- 12VAC/DC, 612mA
- 24VAC/DC, 330mA

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Series 1500 | Electric Locks

Electric Cylindrical Locks

ACSI Stocks Electric Cylindrical Locks available in Schlage, Corbin Russwin, Sargent and Yale. The locks are available as motor-controlled or solenoid-controlled. Motor-controlled locks are field selectable for fail safe or fail secure and have automatic 12V or 24V, AC or DC operation. Solenoid-controlled locks must be specified as fail safe or fail secure and 12VAC/DC or 24VAC/DC. Authorized Egress (Request-to-Exit) option is also available.

Motor-Controlled					
C1510M*	ND80B	12/24V			Schlage Fail Safe
C1510M	10G04B	12/24V	LL	626	Sargent Fail Safe
C1510M	3357B	12/24V	NZD	626	Corbin Russwin Fail Safe
C1510M	5405LNB	12/24V	AU	626	Yale Fail Safe
C1520M*	ND80B	12/24V			Schlage Fail Secure
C1520M	10G04B	12/24V	LL	626	Sargent Fail Secure
C1520M	3357B	12/24V	NZD	626	Corbin Russwin Fail Secure
C1520M	5405LNB	12/24V	AU	626	Yale Fail Secure
Solenoid-Controlled					
C1510*	ND80B	24VAC/DC			Schlage Fail Safe
C1510	10G04B	24VAC/DC	LL	626	Sargent Fail Safe
C1510	3357B	2VAC/DC	NZD	626	Corbin Russwin Fail Safe
C1510	5405LNB	24VAC/DC	AU	626	Yale Fail Safe
C1520*	ND80B	24VAC/DC			Schlage Fail Secure
C1520	10G04B	24VAC/DC	LL	626	Sargent Fail Secure
C1520	3357B	24VAC/DC	NZD	626	Corbin Russwin Fail Secure
C1520	5405LNB	24VAC/DC	AU	626	Yale Fail Secure

* Specify trim style, format and finish. Available in Rhodes, Sparta and Athens trim style. Finishes available in 626, 625 and 613.



Schlage C1520



Corbin C1520M



Sargent C1520M



Yale C1520M

Electrical Specifications

C1510M / C1520M

- 12/24V, 250mA Inrush, 10mA Holding

C1510 / C1520

- 12VAC/DC, 250mA
- 24VAC/DC, 150mA

Series 1500 | Electric Locks

Electric Lock Comparison Chart

ACSI	ARROW	BEST	CORBIN RUSSWIN	DESIGN HARDWARE	FALCON
M1510M/M1520M-1**			20906, 20907	E-M-07-FS/FSE	
M1510M/M1520M-2**			20914, 20915, 20932	E-M-30-FS/FSE	
M1510-1	A17-177, B17-177	EWEL	20903, 20910	E-M-07-FS	M851
M1510-2		WWEL	20901, 20920	E-M-30-FS	M811
M1520-1	A17-178, B17-178	EWEU	20905, 20930	E-M-07-FSE	M881
M1520-2		WWEU	20940	E-M-30-FSE	M821
C1510M/C1520M-1**				E-Z-86-FS/FSE	
C1510-1	Q12-177, H12-177	DEL	33903	E-Z-86-FS	T851
C1520-1	Q12-178, H12-178	DEU	33905	E-Z-86-FSE	T881
AE	RE	RQE	M92	REX	RX*
LM*	LM*	LS*	M91*	LM*	
SM*	SM*		M105*	SM*	
DM*					
DMS*					
DPS*		DS*			

**Motor-controlled

*Available in Mortise only

ACSI	HAGER	PDQ	SARGENT	SCHLAGE	STANLEY COMMERCIAL	YALE
M1510M/M1520M-1**	3880EL/EU	MR199A**	8270, 8271	L9090EL/EU L9092EL/EU L9094EL/EU		
M1510M/M1520M-2**		MR200	8272, 8273	L9091EL/EU L9093EL/EU L9095EL/EU		
M1510-1	3880EL		8270	L9080EL		8890
M1510-2			8272	L9082EL		9984-2
M1520-1	3880EU		8271	L9080EU		8891
M1520-2			8273	L9082EU		8895-2
C1510M/C1520M-1**	3480EL/EU			ND80EL/EU		
C1510-1	3480EL	GT199FS	10G70	ND80EL	QCL192	5490
C1520-1	3480EU	GT199FSC	10G71	ND80EU	QCL194	5491
AE	RX	REX	RX	RX	X	REX
LM*	LM*	LM*	LX*	LX*		LBM*
SM*						
DM*			DX*			
DMS*			DX*			
DPS*	DPM*					

**Motor-controlled

*Available in Mortise only

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Series 1500 | Electric Locks

Electric Lock Modification Listing

Note: If you do not find the lock of your choice listed, please consult with our factory engineering staff. We may request that you send a sample for further evaluation.

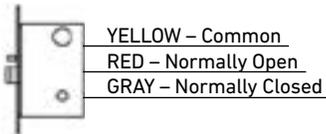
Manufacturer	Mortise Locks	Cylindrical Locks	Unit Locks
Arrow	AM17, BM17	QL82	
Baldwin	6065*, 6065LS*		
Best	45H7R*		
Corbin Russwin	2055	3357	UT2557*
Design Hardware	M-05, M-13	Z-84	
Falcon	MA561, MA571	T561	
Hager	3850, 3856	3480	
PDQ	MR148*		
Sargent	8237, 8225	10G04	
Schlage	L9050, L9070 L9080** (see note below), L9453	ND80 ND94*	
Stanley Commercial	QM160*	QCL170	
Tell Manufacturing		LC2486	
Yale	8800, 8847	5405LN	

*Available in solenoid-controlled only

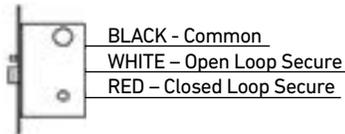
**Schlage L9080 must be supplied with extra spring cage to compensate for lever sag of outside trim.

Lock Schematics

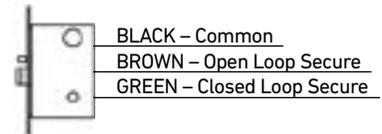
AE – Authorized Egress



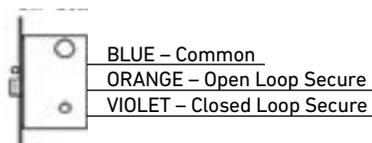
LM – Latch Bolt Monitor



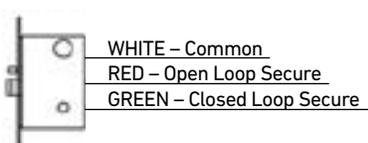
SM – Security Monitoring



DM – Deadbolt Monitor

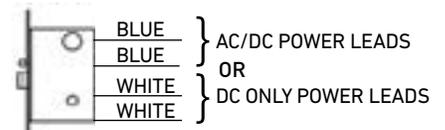


DPS – Door Position Sensor



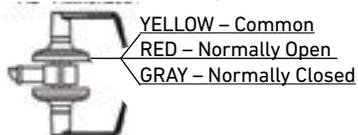
M1510 / M1520 / M1510M / M1520M

DMS – Deadbolt Monitor Secured

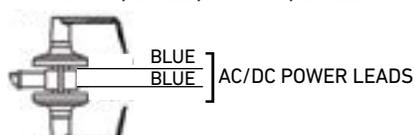


Red ty-wrap on leads designates 12V only.

AE – Authorized Egress



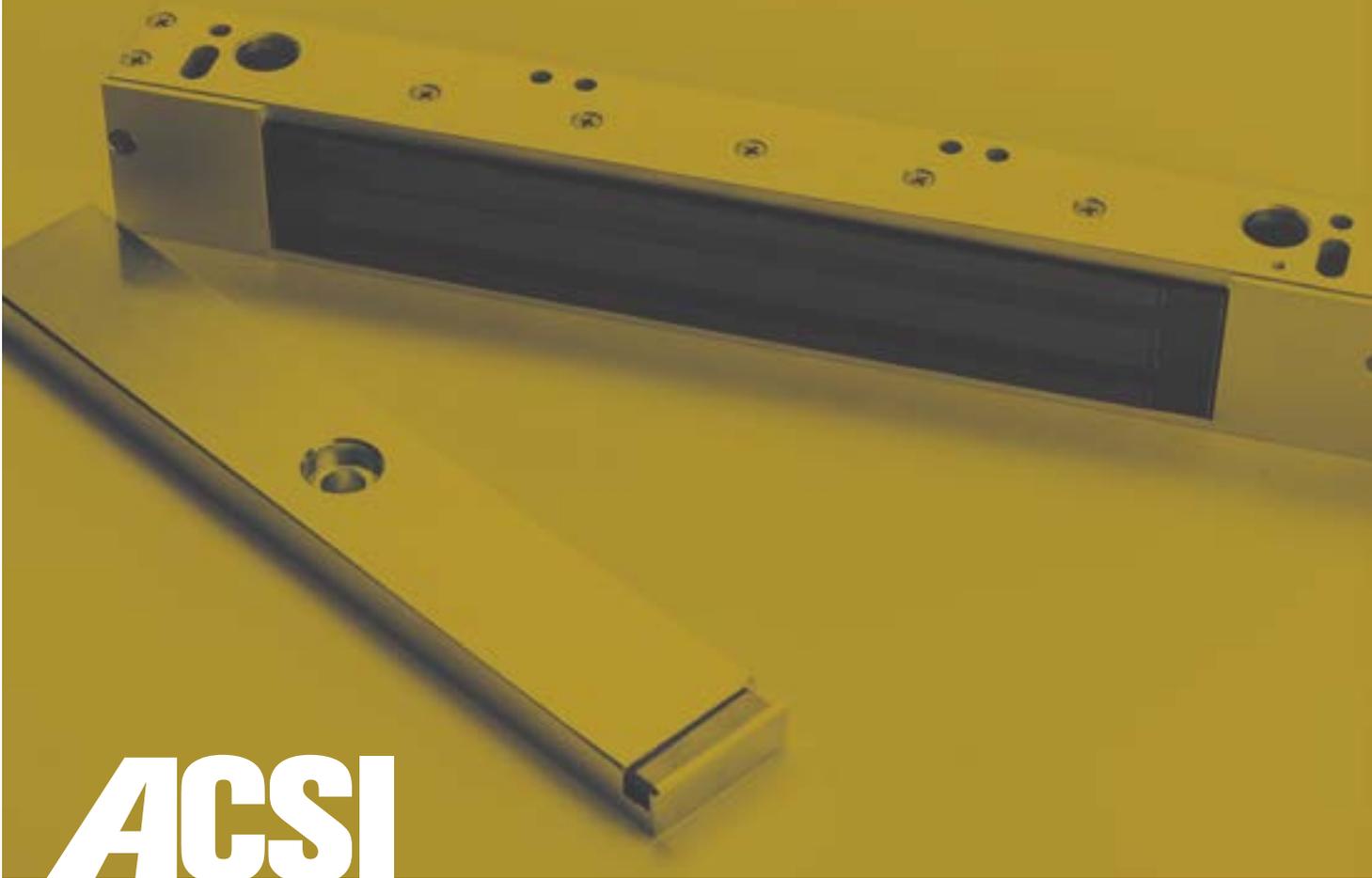
C1510 / C1520 / C1510M / C1520M



Red ty-wrap on leads designates 12V only.

Series 3700

Electromagnetic Locks



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Series 3700 | Electromagnetic Locks

ACSI Series 3700 UL Listed Electromagnetic Locks combine high security features with fail safe operation and conform with life-safety codes. The Series 3700 is designed for single or pairs of outswing or inswing doors.

Features

- UL Listed
- Variety of models available
- Positive fail safe security
- No moving parts - maintenance free
- Low power consumption
- Built-in surge and spike protection
- Built-in door position sensor

Options

- Magnetic bond sensor
- Power LED
- Custom length housings
- Variety of architectural finishes
- Glass door brackets

Electrical Specifications

- 12VDC, 500mA
- 24VDC, 250mA

How to Order

1. Model

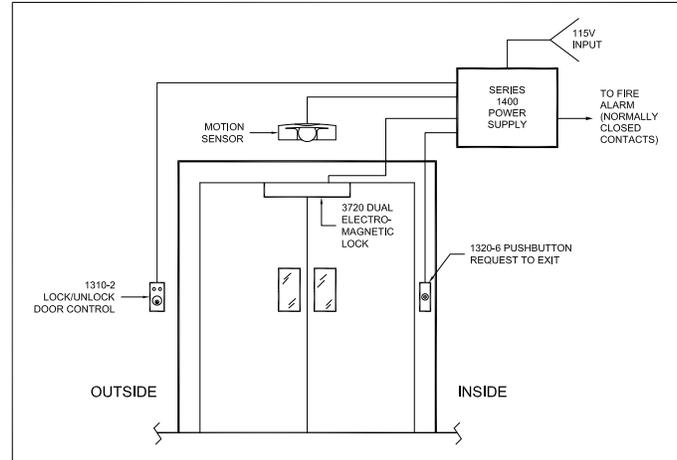
3710	Single 1200 lb. magnetic lock (outswing)
3711	Single 1200 lb. magnetic lock with Z bracket (inswing)
3720	Double 1200 lb. magnetic lock (outswing)
3721	Double 1200 lb. magnetic lock with Z bracket (inswing)
3750	Single 1200 lb. magnetic lock for sliding doors
3760	Single 300 lb. magnetic lock
3770	Double 300 lb. magnetic lock
3780	Single 600 lb. magnetic lock
3790	Double 600 lb. magnetic lock
3795	Concealed magnetic shear lock

2. Operating Voltage

24VDC

12VDC

Typical Installation



3. Finish

SA	Satin Aluminum
BA	Black Anodized
GA	Gold Anodized
DBN	Dark Brown Anodized
US3	Bright Brass
US4	Satin Brass
US26	Bright Chrome

4. Options

MBS	Magnetic bond sensor
L1	1 LED (green or red)
L2	2 LEDs (green and red)
FP1	Filler plate, single magnet*
FP2	Filler plate, double magnet*
GLB-1	1/2" glass door bracket
GLB-2	3/4" glass door bracket
AB-1	Angle bracket for single magnet (1"x1"x14")
AB-2	Angle bracket for double magnet (1"x1"x25")
AB-3	Angle bracket for single magnet (1-1/2"x2-5/8"x14")
AB-4	Angle bracket for double magnet (1-1/2"x2-5/8"x25")

* Specify 1/2" or 5/8" thick.

Note: Please consult the factory for custom length decorative housings.

1-800-753-5558



Series 6100

Communicating Bath Door System



ACSI

2720 Clark Avenue
St. Louis, MO 63103
(314) 652-5588
(314) 652-2090 FAX

www.acsi-inc.com

1-800-753-5558

Series 6100 | Communicating Bath Door System

ACSI Series 6100 Communicating Bath Door System is designed to coordinate access to a common bathroom facility from adjoining rooms. This system allows more efficient utilization of floor space in facilities by eliminating the need for a bathroom in each room.

Features

- Fail safe system - doors will unlock when power is removed
- Free egress at all times
- User privacy
- Eliminates accidental lock-out from either room to the bathroom
- Mechanical key override allows personnel to enter during an emergency
- 2A load capacity
- Inputs available for optional emergency release switch when urgent unlocking of the door is required
- Convenient field wiring of system components

Options

- Located above outside doors for emergency release:
 - 1330-3 Emergency Release
 - 1320-1 Pushbutton Switch

Required Components

Item	Qty	Description
1	1 Each	1400-6100 Power Supply
2	2 Each	Door Position Sensors
3	2 Each	Pushbuttons with indicator marked "Push to Lock"
4	2 Each	Indicators marked "Occupied"
5	2 Each	Electric Hinges, Model 1104*
6	2 Each	M1510 or C1510 Fail Safe Locks*

* *Electric hinges and electric locks are not included, but must be ordered with the Series 6100 system.*

Description of System Function

When the bathroom is not occupied, both doors are unlocked and all indicators are extinguished. Upon entering the bathroom from one of the rooms, the occupant depresses the inside pushbutton switch to lock both doors (both doors must be closed in order for them to lock). When the doors lock, the red indicators inside the bathroom indicate that both doors are locked from the outside. The green indicators outside the bathroom indicate that the bathroom is occupied.

Note: Both doors are always free egress and can be unlocked mechanically from the outside with a key. When the occupant exits either door, both doors automatically return to the unlocked condition and all indicators are extinguished.

Series 6100 | Communicating Bath Door System

How to Order

1 Model	2 Electric Locking Device	3 1104 Electric Hinge
6100	A or B	

1. 6100 System

6100	Communicating Bath Door System
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2. Electric Locking Device

Distributors supply ACSI with mortise or cylindrical locks for modification. Please supply the lock manufacturer's full part number.

Example: L9070, 8237, 8808, ND80, 3357, etc.

A (2) M1510	Electric Mortise Locks
B (2) C1510	Electric Cylindrical Locks

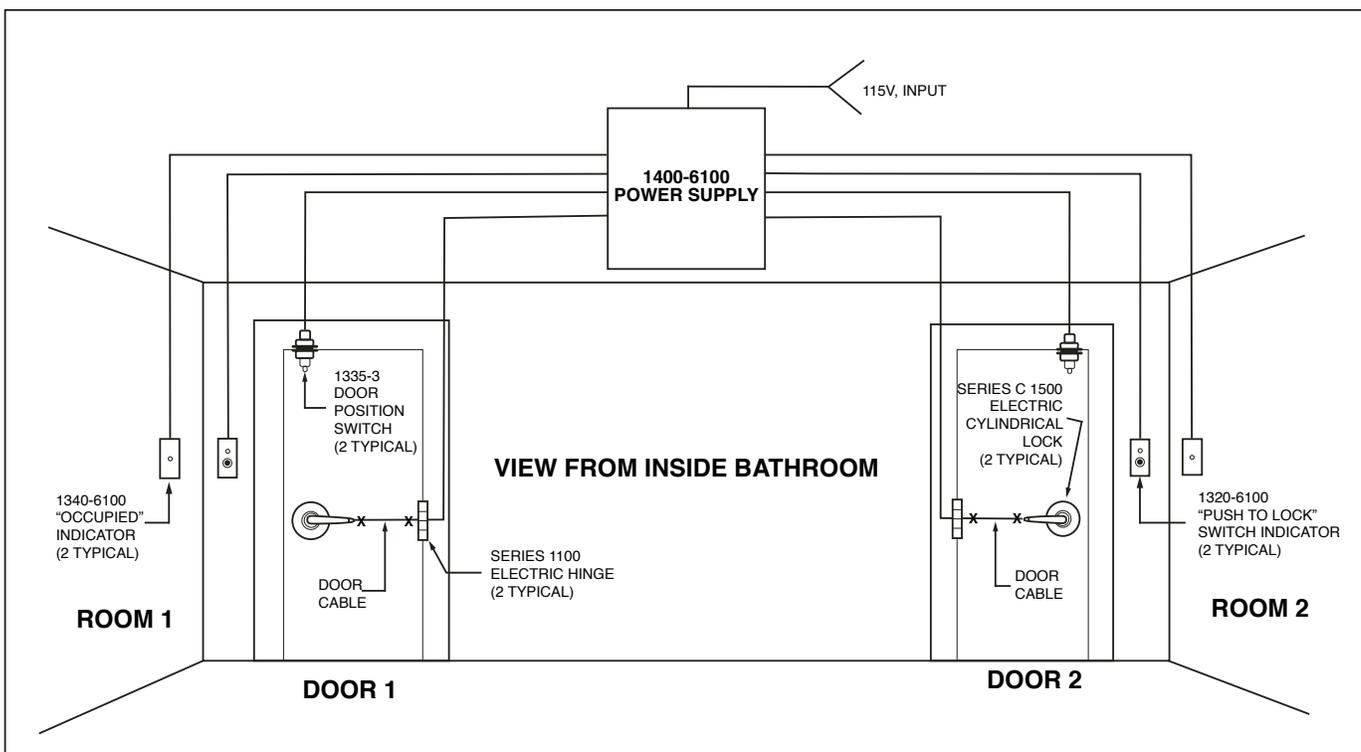
3. 1104 Electric Hinges

Please specify manufacturer, weight, size and finish of the hinge required.

(2) Hager BB1279 4.5x4.5 26D 1104

(2) Stanley FBB191 5.0x4.5 10B 1104

Note: System may also be furnished with an emergency release device; i.e., 1330-3 Emergency Release or 1320-1 Pushbutton Switch.



Series 8500

Gemini Locking Systems



ACSI

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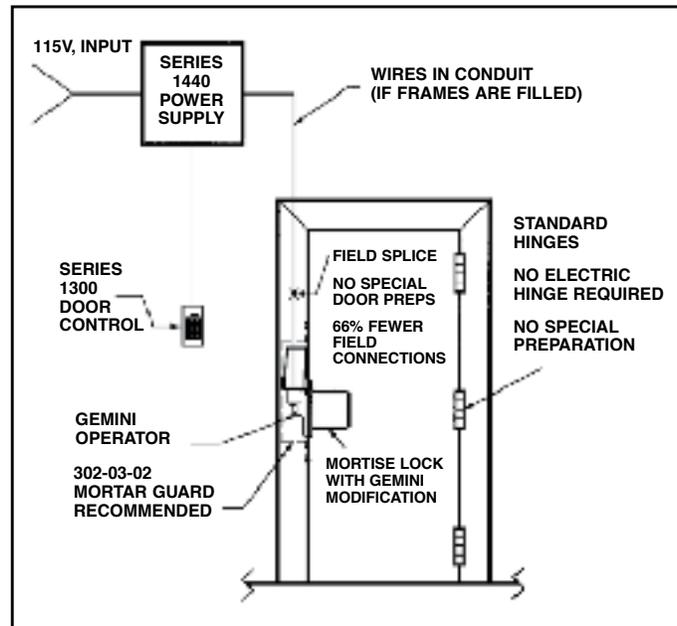
Series 8500 | Gemini Locking Systems

ACSI Series 8500 Gemini Locking System provides safety and security for stairtower doors or controlled areas where both locking and latching are required. The Gemini system allows remote electric locking or unlocking while conforming to life-safety codes. The system consists of two components: a Gemini modified mortise lockset and a frame mounted Gemini operator.

Features

- UL Listed Gemini mortise lock - no special door prep
- UL Listed Gemini operator located in the frame
- Ability to work with a wide range of mortise lock manufacturers:
 - Arrow
 - Corbin Russwin
 - Schlage
- Fail Safe (Power Lock)
 - Outside trim is locked when power is applied and unlocked when power is removed (storeroom function when energized). Lockset will unlock in the event of a power failure (passage function).
- Fail Secure (Power Unlock)
 - Outside trim is unlocked when power is applied and locked when power is removed. Lockset will lock in the event of a power failure.
- 24VDC or 24VAC/DC
- Mechanical key override
 - When key cylinders are provided in the locks, the latch bolt may be momentarily retracted with key even though electrically locked. **Note:** Locks that are electrically unlocked may not be locked via the key cylinder.
- Easy installation: Gemini operator fits easily into 2" face frames. Only one wiring termination.
- Optional quick connect cable
- Continuous duty rated
- Heavy-duty stainless steel housing
- Security monitoring available
- Interface with life-safety systems

Series 8500 Typical Installation



Series 8500 | Gemini Locking Systems

How to Order

1 GEMINI OPERATOR	2 LOCK TYPE	3 CONTROL MODE	4 OPERATING VOLTAGE	5 QUICK CONNECT CABLE	6 SECURITY MONITORING	7 FINISH	8 HANDING	9 LOCK PART #
8500	M1	PL	24VDC	QC	CLS	26D	LH	L9070
8500F	M2	PUL	24VAC/DC		OLS		RH	
							LHR	
							RHR	

Example:

GEMINI OPERATOR	LOCK TYPE	CONTROL MODE	OPERATING VOLTAGE	QUICK CONNECT CABLE	SECURITY MONITORING	FINISH	HANDING	LOCK PART #
8500	M1	PL	24VDC	QC	CLS	26D	LH	L9070

1. Gemini Operator

8500	The standard Gemini operator is designed for 2" face frame applications and fits a standard ANSI 4-7/8" frame prep.
8500F	Also designed for 2" face frame applications, this operator is supplied with an oversized strikeplate for easy installation in retrofit applications.

2. Lock Type

M1	Mortise lock with one side (lever or knob) locked
M2	Mortise lock with both sides (lever and knob) locked

3. Control Mode

PL	Power Lock (Fail Safe)
PUL	Power Unlock (Fail Secure)

4. Operating Voltage

24VDC
24VAC/DC

5. Quick Connect Cable

QC	An optional quick connect cable 10' in length with stripped wires at one end for splicing into an electrical box or power supply and with a connector on one end for quick connect to the Gemini operator is automatically supplied with a matching connector.
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Note: Leave this space blank if not required.

6. Security Monitoring

CLS	Closed Loop Secure – Monitor • When lock is secure (latch in strike-operator in locked position), monitor loop is a closed circuit. The circuit opens if security is breached.
OLS	Open Loop Secure – Monitor • When lock is secure (latch in strike-operator in locked position), monitor loop is an open circuit. The circuit closes if security is breached.

Note: Leave this space blank if not required.

7. Finish

Specify US standard architectural hardware finish as required.

8. Handing

LH	Left Hand
RH	Right Hand
LHR	Left Hand Reverse
RHR	Right Hand Reverse

9. Lock Part Number

Distributors supply ACSI with mortise locks for modification. Please supply the lock manufacturer's full part number.

Example: L9070, 2055, BM17

Note: Refer to the last page of this catalog section for a complete listing of locks required by ACSI.

Accessories

302-03-02	Gemini Mortar Guard, 15"
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Series 8500 | Gemini Locking Systems

Gemini Lock Modification Listing (Indicates Locksets that are UL Listed)

Note: If you do not find the lock of your choice listed, please consult with our factory engineering staff. We may request that you send a sample for further evaluation.

Arrow	Corbin Russwin	Schlage
AM17	2055	L9050
BM17		L9070
		L9080*

*L9080 must be supplied with extra spring cage to compensate for lever sag of outside trim.

Gemini Comparison Chart

ACSI-Gemini	SDC HiTower
Fail Safe	
8500-M1-PL	7550, 7540
8500-M2-PL	7530
8500-M1 or M2-PL*	7510, 7520
Fail Secure	
8500-M1-PUL	7570
8500-M2-PUL	7560

*Please consult the factory for proper part number.

ACSI	Description	SDC
CLS, OLS	Monitoring	9A, 69A
QC	Quick Connect Cable	SC-10
302-03-02	Mortar Guard for 2" Face Frame	7500-EB-S

Electrical Specifications

Gemini Operator

- 24VAC/DC, 600mA

Monitoring Contact Rating

- 0.5A @ 30VDC

1-800-753-5558