

## Datasheet

Large multicolor indicator that alternates between active inputs



- Bright, uniform indicator light
- · Alternates between colors when multiple inputs are active
- · Models are available with up to five colors in one device
- Rugged IP67-rated design
- 12 to 30 V dc operation

Model	# of Colors	Colors	Input	Connection	
K90TLGRPQ	2	Green, Red			
K90TLGYRPQ	3	Green, Red, Yellow		5-pin M12/Euro-style Quick Disconnect	
K90TLBGYRPQ	4	Blue , Green, Yellow, Red	PNP		
K90TLWBGYRPQ	5	White, Blue, Green, Yellow, Red		8-pin M12/Euro-style Quick Disconnect	
K90TLGRNQ	2	Green, Red		5-pin M12/Euro-style Quick Disconnect	
K90TLGYRNQ	3	Green, Red, Yellow			
K90TLBGYRNQ	4	Blue , Green, Yellow, Red	NPN		
K90TLWBGYRNQ	5	White, Blue, Green, Yellow, Red		8-pin M12/Euro-style Quick Disconnect	

Integral quick disconnect models are listed; a mating cordset is required (see Accessories on page 3).

- To order the 150 mm (5.9 in) PVC pigtail with quick disconnect models, replace Q with QP in the model number, for example, K90TLGRQP.
- To order the 2 m (6.5 ft) cable modes, omit the suffix Q in the model number, for example, K90TLGR.

# Specifications

Supply Voltage and Current

12 to 30 V dc

475 mA Max. at 12 V dc 175 mA Max. at 30 V dc

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Input Response Time 150 ms maximum Light Characteristics

Color	Typical Wavelength or Color Temperature	Typical Intensity
Red	625 nm	65 lumens
Yellow	590 nm	35 lumens
Green	525 nm	150 lumens
Blue	470 nm	55 lumens
White	6000-7100 K	200 lumens

Construction

Base and dome: Polycarbonate

Connections

Integral 5-pin or 8-pin M12/Euro-style quick disconnect, or 150 mm (5.9 in) PVC pigtail with quick disconnect, or 2 m (6.5 ft) cable, depending on model

Indicators

2 to 5 colors, depending on model

Environmental Rating

IP67

Vibration and Mechanical Shock

All models meet Mil Std. 202F requirements. Method 201A (vibration: 10 to 60 Hz max., double amplitude 0.06", maximum acceleration 10G). Also meets IEC 947-5-2 requirements: 30G 11 ms duration, half sine wave.

Operating Conditions

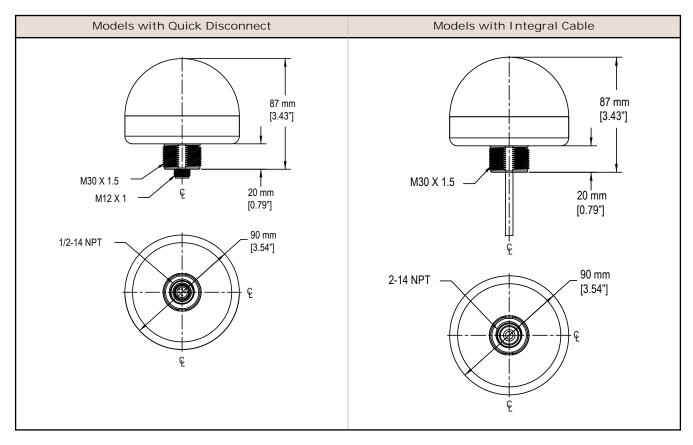
-40 °C to +50 °C (-40 °F to +122 °F)

Certifications



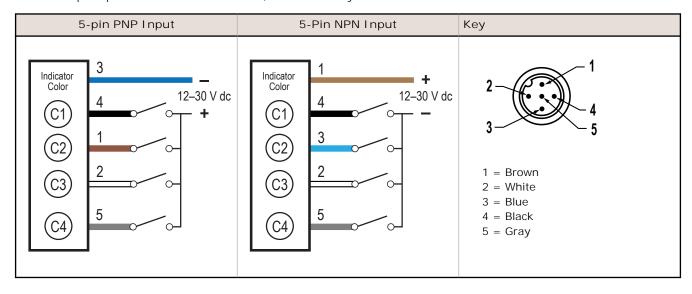


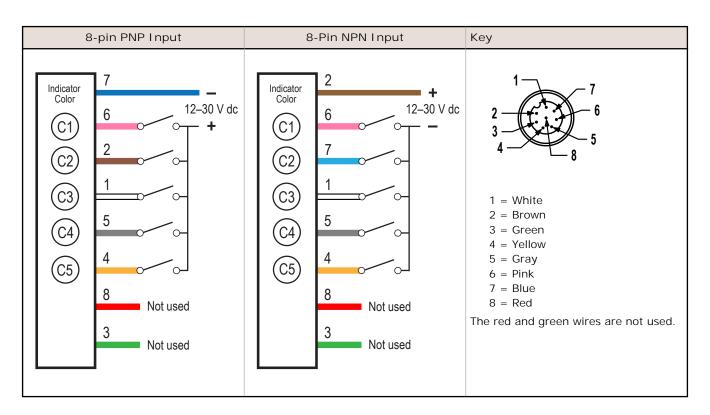
### **Dimensions**



# Wiring

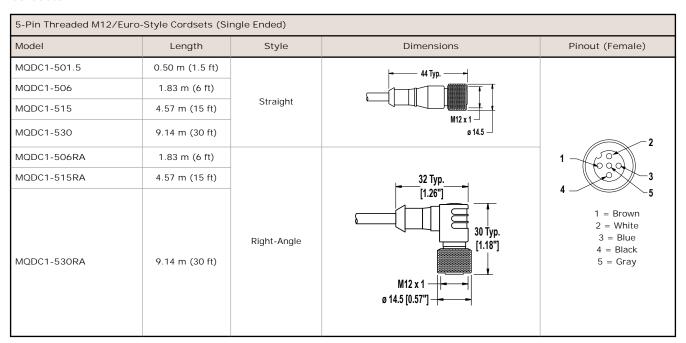
When multiple inputs are on at the same time, the indicator cycles between colors at a rate of 1 Hz.





# Accessories

#### Cordsets



8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield			
Length	Style	Dimensions	Pinout
1.83 m (6 ft)			
4.57 m (15 ft)	Straight	44 Typ.  M12 x 1  Ø 14.5	1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red
9.14 m (30 ft)			
15.2 m (50 ft)			
1.83 m (6 ft)	Right-Angle	32 Typ.  [1.26"]  30 Typ.  11.18"]	
4.57 m (15 ft)			
9.14 m (30 ft)			
15.2 m (50 ft)			
	Length  1.83 m (6 ft)  4.57 m (15 ft)  9.14 m (30 ft)  15.2 m (50 ft)  1.83 m (6 ft)  4.57 m (15 ft)  9.14 m (30 ft)	Length Style  1.83 m (6 ft)  4.57 m (15 ft)  9.14 m (30 ft)  15.2 m (50 ft)  1.83 m (6 ft)  4.57 m (15 ft)  9.14 m (30 ft)	Length Style Dimensions  1.83 m (6 ft) 4.57 m (15 ft) 9.14 m (30 ft) 15.2 m (50 ft)  1.83 m (6 ft) 4.57 m (15 ft) 9.14 m (30 ft) 15.2 m (50 ft)  Right-Angle

### **Elevated Mount System**

Model			Features	Components
SA-M30 - Black Polycarbonate  SA-M30C - Gray Polycarbonate		Streamlined black PC or Gray PC thread cover     Covers M30 thread on the light base     Mounting hardware included		
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum	<ul> <li>Elevated-use stand-off pipe (½ in. NPSM/DN15)</li> <li>Polished 304 stainless steel, black anodized</li> </ul>	
SOP-E12-150SS 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long		
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	<ul> <li>aluminum, or clear anodized aluminum surface</li> <li>½ in. NPT thread at both ends</li> <li>Compatible with most industrial environments</li> </ul>	
SOP-E12-900SS 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long		π
SA-E12M30 - Black Acetal SA-E12M30C - White UHMW			<ul> <li>Streamlined black acetal or white UHMW mounting base adapter/cover</li> <li>Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole</li> <li>Mounting hardware included</li> </ul>	

#### Pipe Mounting Flange Foldable Mounting Brackets SA-F12 Foldable Mounting Brackets Die-cast zinc base with Model Features Construc black paint tion For use elevated stand-off pipes (1/2 in, NPSM/DN15) SA-FFB12 For use with Black M5 mounting hardware polycarbo 1/2 inch and nitrile gasket included stand-off nate pipes SA-Gray Stainless FFB12C polycarbo steel nate hardware

#### LMB Sealed Right-Angle Brackets

Model	Description	Construction		
LMB30RA		Black polycarbonate		
LMB30RAC	Direct-Mount Models: Bracket kit with base, 30 mm adapter, set screw, fasteners, o-rings, and gaskets	Gray polycarbonate		
LMBE12RA		Black polycarbonate		
LMBE12RAC	Pipe-Mount Models: Bracket kit with base, ½-14 pipe adapter, set screw, fasteners, o- rings, and gaskets. For use with stand-off pipe (listed and sold separately)	Gray polycarbonate		

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