EZ-LIGHT® K90TFDL Daylight Visible



Datasheet

Large multicolor daylight visible indicator that alternates between active inputs



- Intense levels of light output for areas with high ambient light even outdoors
- Alternates between colors when multiple inputs are active
- Models are available with up to five colors in one device
- Rugged IP67-rated design
- 12 V dc to 30 V dc operation

Models

Model	# of Colors	Colors	Connection	Input
K90TFDLGRPQ	2	Green, Red		
K90TFDLGYRPQ	3	Green, Yellow, Red	Integral 5-pin M12/Euro-style male quick disconnect (QD)	
K90TFDLBGYRPQ	4	Blue, Green, Yellow, Red	PN	
K90TFDLWBGYRPQ	5	White, Blue, Green, Yellow, Red	Integral 8-pin M12/Euro-style male quick disconnect (QD)	
K90TFDLGRNQ	2	Green, Red		
K90TFDLGYRNQ	3	Green, Yellow, Red	Integral 5-pin M12/Euro-style male quick disconnect (QD)	
K90TFDLBGYRNQ	4	Blue , Green, Yellow, Red		NPN
K90TFDLWBGYRNQ	5	White, Blue, Green, Yellow, Red	Integral 8-pin M12/Euro-style male quick disconnect (QD)	

Integral quick disconnect models are listed; a mating cordset is required (see Accessories on page 4).

- To order the 150 mm (5.9 in) PVC cable with QD models, replace Q with QP in the model number, for example, K90TFDLGRPQP.
- To order the 2 m (6.5 ft) cable models, omit the suffix Q in the model number, for example, K90TFDLGRP.



Specifications

Supply Voltage and Current

12 to 30 V dc

475 mA maximum at 12 V dc

175 mA maximum at 30 V dc

Supply Protection Circuitry Protected against reverse polarity and transient voltages

Input Response Time

75 ms maximum

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Adjustments 1.6 Hz flash rate via flash input wire

Light Characteristics

Color	Typical Wavelength or Color Temperature	Typical Intensity
Red	625 nm	83 lumens
Yellow	590 nm	43 lumens
Green	525 nm	175 lumens
Blue	470 nm	55 lumens
White	4700–5300 K	235 lumens

Construction

Base and dome: Polycarbonate

disconnect (QD); or 2 m (6.5 ft) unterminated PVC-jacketed cable depending on the model

Connections

Indicators

1 to 5 colors, depending on the model Only one color can be on at a time. The higher color number overrides the lower color number.

Integral 5-pin M12/Euro-style male quick disconnect (QD); Integral 8-

pin M12/Euro-style male quick disconnect (QD); 150 mm (6 in) PVC cable with a 5-pin M12/Euro-style male quick disconnect (QD); 150

mm (6 in) PVC cable with a 8-pin M12/Euro-style male quick

Environmental Rating

IEC IP67; Enclosure UL Type 4X, 13

Vibration and Mechanical Shock

All models meet Mil Std. 202F requirements. Method 201A (vibration: 10 Hz to 60 Hz max., double amplitude 0.06 inch, 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)

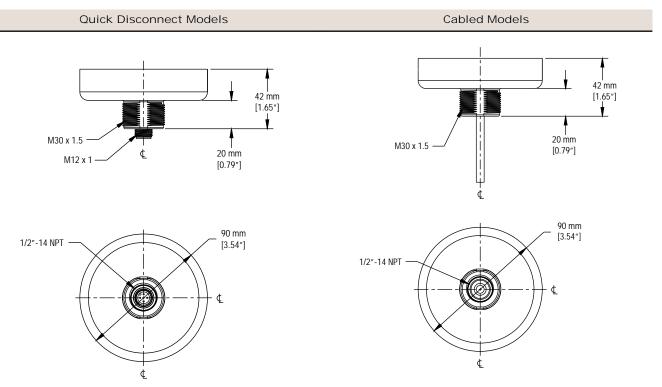
Certifications

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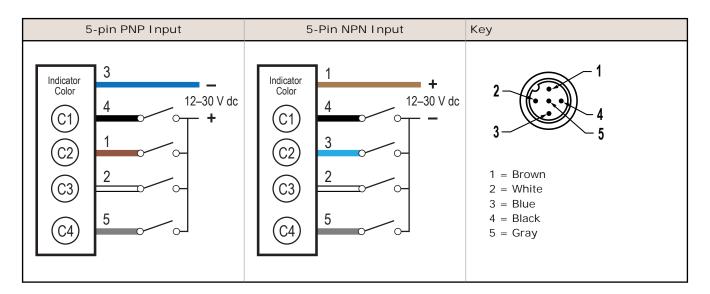
Dimensions

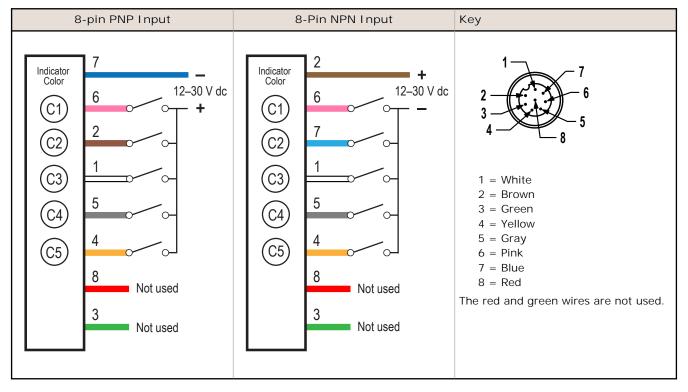
All measurements are listed in millimeters [inches], unless noted otherwise.



Wiring

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





Accessories

Cordsets

5-Pin Threaded M12/Euro-Style Cordsets—Single Ended						
Model	Length	Style	Dimensions	Pinout (Female)		
MQDC1-501.5	0.50 m (1.5 ft)		→ 44 Typ. ———			
MQDC1-506	1.83 m (6 ft)					
MQDC1-515	4.57 m (15 ft)	Straight				
MQDC1-530	9.14 m (30 ft)		ø 14.5	1 - 2		
MQDC1-506RA	1.83 m (6 ft)			4		
MQDC1-515RA	4.57 m (15 ft)				<mark>−32 Typ</mark> − [1.26"]	1 = Brown
MQDC1-530RA	9.14 m (30 ft)	Right-Angle	M12 x 1 0 14.5 [0.57"]	2 = White 3 = Blue 4 = Black 5 = Gray		

8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC2S-806	1.83 m (6 ft)			
MQDC2S-815	4.57 m (15 ft)		44 Typ	
MQDC2S-830	9.14 m (30 ft)	Straight		2_
MQDC2S-850	15.2 m (50 ft)		M12 x1 ø 14.5	1
MQDC2S-806RA	1.83 m (6 ft)			
MQDC2S-815RA	4.57 m (15 ft)		=32 Typ= [1.26"]=	1 = White 2 = Brown
MQDC2S-830RA	9.14 m (30 ft)			3 = Green
MQDC2S-850RA	15.2 m (50 ft)	Right-Angle	M12 x 1	4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red

Elevated Mount System

Model	Features	Components
SA-M30 - Black Polycarbonate	Streamlined black PC or Gray PC thread cover	J.
SA-M30C - Gray Polycarbonate	Covers M30 thread on the light baseMounting hardware included	

Model		Features	Components	
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum		11
SOP-E12-150SS 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long	 Elevated-use stand-off pipe (½ in. NPSM/DN15) Polished 304 stainless steel, black anodized aluminum, or clear anodized aluminum surface 	
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	 <i>½</i> in. NPT thread at both ends Compatible with most industrial environments 	
SOP-E12-900SS 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long		
SA-E12M30 - Black Acetal		Streamlined black acetal or white UHMW mounting base adapter/cover	A	
SA-E12M3OC - White UHMW		 Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included 	\bigcirc	

Pipe Mounting Flange				
Model	Features	Construction		
SA-F12	 For use elevated stand-off pipes (½ in, NPSM/DN15) M5 mounting hardware and nitrile gasket included 	Die-cast zinc base with black paint	1/2-14 NPSM 10 10 10 10 10 10 10 10 10 10 10 10 10	

Foldable Mounting Brackets				
Model	Features	Construction		
SA-FFB12 SA-FFB12C	 For use with 1/2 inch stand-off pipes Stainless steel hardware 	Black polycarbonate Gray polycarbonate	112-14 NPSM 111 070 4 x Ø5	

LMB Sealed Right-Angle Brackets

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

Sun Shield

 K90DS Use for enhanced visibility in direct sunlight conditions Polycarbonate 	

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