EZ-LIGHT K70L



Datasheet

Medium Sized One to Five Color Indicator with Flashing Input Control



- Bright, uniform indicator light
- All models have flashing input control
- Models are available with up to five colors in one device
- Rugged IP65-rated design
- 12 V to 30 V dc operation

Model ¹	No. of Colors	Colors	Input	Connection
K70LGPQ		Green		
K70LRPQ		Red	-	
K70LYPQ	-	Yellow	PNP	
K70LBPQ		Blue		5-pin M12/Euro-style Quick Disconnect
K70LWPQ	- 1	White		
K70LGNQ		Green		
K70LRNQ		Red	-	
K70LYNQ		Yellow	NPN	
K70LBNQ		Blue	1	
K70LWNQ		White		

Model ¹	No. of Colors	Colors Connection		Input	
K70LGRPQ	2	Green, Red	5-pin M12/Euro-style Quick		
K70LGYRPQ	3	Green, Red, Yellow	Disconnect	PNP	
K70LBGYRPQ	4	Blue , Green, Yellow, Red	0 min M12/Euro stude Ouisle		
K70LWBGYRPQ	5	White, Blue, Green, Yellow, Red	8-pin M12/Euro-style Quick Disconnect		
K70LGRNQ	2	Green, Red	5-pin M12/Euro-style Quick		
K70LGYRNQ	3	Green, Red, Yellow	Disconnect		
K70LBGYRNQ	4	Blue , Green, Yellow, Red	0 min M12/Euro stude Ouisle	NPN	
K70LWBGYRNQ	5	White, Blue, Green, Yellow, Red	8-pin M12/Euro-style Quick Disconnect		

[•] To order the 2 m (6.5 ft) cable modes, omit the suffix Q in the model number, for example, K70LGYR.



¹ 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 pigtail with quick disconnect models, replace Q with QP in the model number, for example, K70LGYRQP.

Wiring





Specifications

Supply Voltage and Current 12 V to 30 V dc

12 V to 30 V dc 200 mA Max. at 12 V dc

90 mA Max. at 30 V dc

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Input Response Time

75 ms maximum

Adjustments

1.5 Hz flash rate via flash input wire

Construction

Base and dome: Polycarbonate

Connections

Integral 5-pin or 8-pin M12/Euro-style quick disconnect, or 150 mm (6 in) PVC pigtail with quick disconnect, or 2 m (6.5 ft) cable, depending on model

Indicators

1 to 5 colors, depending on model

Only one color can be on at a time. The higher color number overrides the lower color number.

Light Characteristics

Color	Typical Wavelength or Color Temperature	Typical Intensity
Red	625 nm	34 lumens
Yellow	590 nm	22 lumens
Green	525 nm	65 lumens
Blue	470 nm	22 lumens
White	6000–7100 K	87 lumens

Environmental Rating IEC IP65

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



Required Overcurrent Protection



WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced. For additional product support, go to *http://*

www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Dimensions

Quick Disconnect Models



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)	Right-Angle 2 = 10 30 Typ. [1.18"] 4 =	Right-Angle	1 = Brown
MQDC1-530RA	9.14 m (30 ft)			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 7 6 8 8	
MQDC2S-806RA	1.83 m (6 ft)				
MQDC2S-815RA	4.57 m (15 ft)		32 Typ.		1 = White 2 = Brown
MQDC2S-830RA	9.14 m (30 ft)	Right-Angle	3 = Green		
MQDC2S-850RA	15.2 m (50 ft)		[1.18"] ↓ 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	
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		
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	 Ye 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 SA-E12M30C - White UHMW		Streamlined black acetal or white UHMW mounting base adapter/cover	, db	
		 Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included 		

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	

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