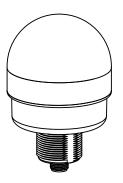


# Datasheet

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 <sup>1</sup>	No. of Colors	Colors	Input	Connection
K70LGPQ		Green	PNP	5-pin M12/Euro-style Quick Disconnect
K70LRPQ		Red		
K70LYPQ		Yellow		
K70LBPQ		Blue		
K70LWPQ	4	White		
K70LGNQ	1	Green		
K70LRNQ		Red		
K70LYNQ		Yellow	NPN	
K70LBNQ		Blue	_	
K70LWNQ		White		

Model <sup>1</sup>	No. of Colors	Colors Connection		Input
K70LGRPQ	2	Green, Red	5-pin M12/Euro-style Quick	
K70LGYRPQ	3	Green, Red, Yellow	Disconnect	
K70LBGYRPQ	4	Blue , Green, Yellow, Red	9 min M19/Fura atula Quiak	PNP
K70LWBGYRPQ	5	White, Blue, Green, Yellow, Red	8-pin M12/Euro-style Quick Disconnect	
K70LGRNQ	2	2 Green, Red 5-pin M12/Euro-style Quick		
K70LGYRNQ	70LGYRNQ 3		Disconnect	NPN
K70LBGYRNQ 4		Blue , Green, Yellow, Red	9 nin M12/Euro etylo Quiek	
K70LWBGYRNQ	5	White, Blue, Green, Yellow, Red  8-pin M12/Euro-style Quick Disconnect		

<sup>•</sup> To order the 2 m (6.5 ft) cable modes, omit the suffix Q in the model number, for example, K70LGYR.

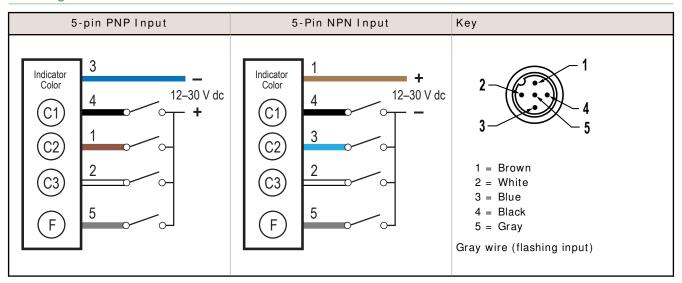


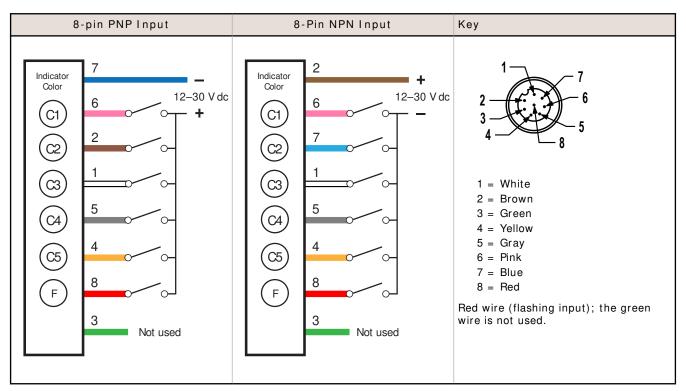
Original Document 192533 Rev. A

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

<sup>•</sup> 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

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

Integral 5-pin or 8-pin M12/Euro-style guick 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.

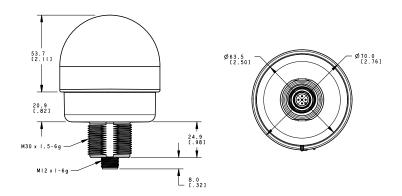
For additional product support, go to http://

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)		<del> </del>	
MQDC1-506	1.83 m (6 ft)			
MQDC1-515	4.57 m (15 ft)	Straight	Straight M12x1	1 - 2
MQDC1-530	9.14 m (30 ft)		ø 14.5 <u></u>	
MQDC1-506RA	1.83 m (6 ft)			3
MQDC1-515RA	4.57 m (15 ft)		32 Typ	1 = Brown
MQDC1-530RA	9.14 m (30 ft)	Right-Angle	30 Typ. 11.18"]  M12 x 1  ø 14.5 [0.57"]	2 = White 3 = Blue 4 = Black 5 = Gray

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 x 1	1 3 4 7 6 8 5	
MQDC2S-806RA	1.83 m (6 ft)			
MQDC2S-815RA	4.57 m (15 ft)		32 Typ. [1.26"]	1 = White
MQDC2S-830RA	9.14 m (30 ft)			2 = Brown 3 = Green
MQDC2S-850RA	15.2 m (50 ft)	Right-Angle	M12 x 1 0 14.5 [0.57"]	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	<ul> <li>Covers M30 thread on the light base</li> <li>Mounting hardware included</li> </ul>	

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		
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	72 III. IVI I tili cad at both chas		
SOP-E12-900SS 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long		П	
SA-E12M30 - Black Acetal		Streamlined black acetal or white UHMW     mounting base adapter/cover	طلم		
SA-E12M30C - White UHMW		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	<ul> <li>For use elevated stand-off pipes (½ in, NPSM/DN15)</li> <li>M5 mounting hardware and nitrile gasket included</li> </ul>	Die-cast zinc base with black paint	1/2-14 NPSM 4x Ø5.5 028 070		

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