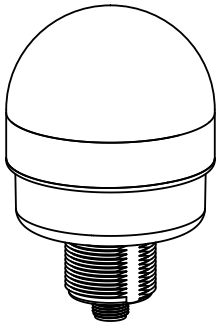
# EZ-LIGHT K70L

## 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 | 1 | Green | PNP | 5-pin M12/Euro-style Quick Disconnect |
| K70LRPQ | | Red | | |
| K70LYPQ | | Yellow | | |
| K70LBPQ | | Blue | | |
| K70LWPQ | | White | | |
| K70LGNQ | | Green | NPN | |
| K70LRNQ | | Red | | |
| K70LYNQ | | Yellow | | |
| K70LBNQ | | Blue | | |
| K70LWNQ | | White | | |

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

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

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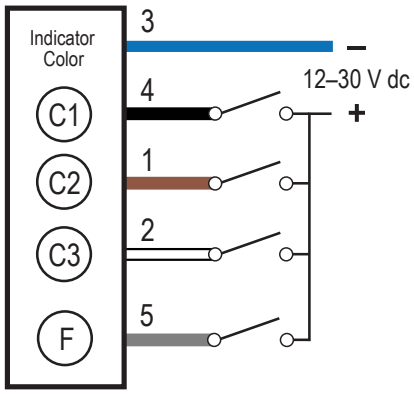
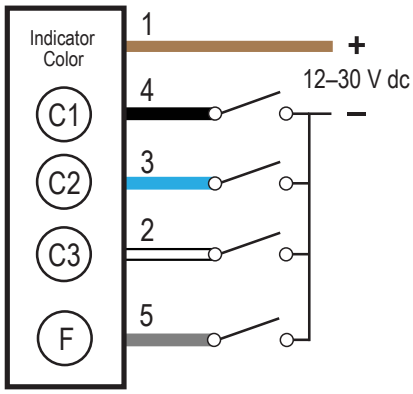
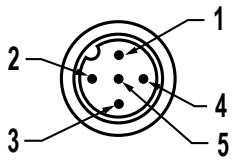
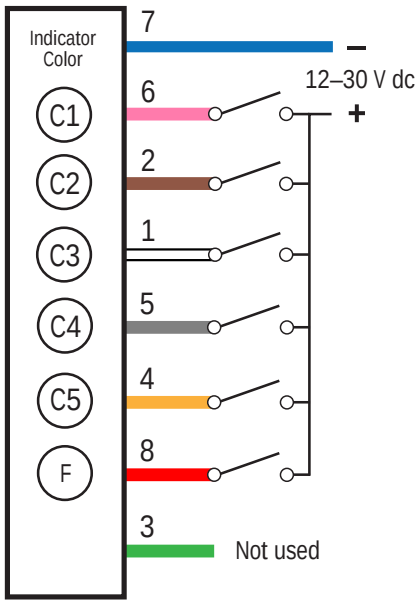
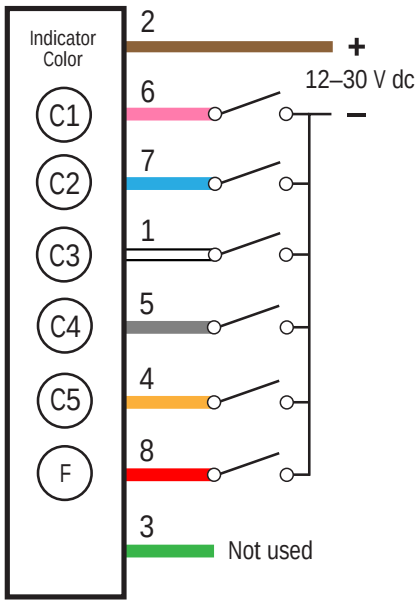
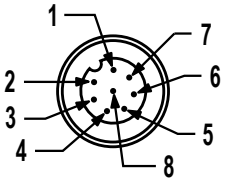
ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

## Wiring

| 5-pin PNP Input | 5-Pin NPN Input | Key |
|---|---|---|
|  |  |  |
| | | 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Gray<br>Gray wire (flashing input) |



| 8-pin PNP Input | 8-Pin NPN Input | Key |
|---|---|---|
|  |  |  |
| | | 1 = White<br>2 = Brown<br>3 = Green<br>4 = Yellow<br>5 = Gray<br>6 = Pink<br>7 = Blue<br>8 = Red<br>Red wire (flashing input); the green wire is not used. |

## 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

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

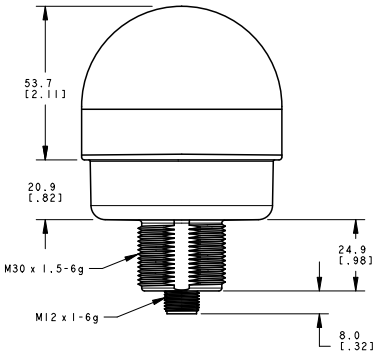
WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

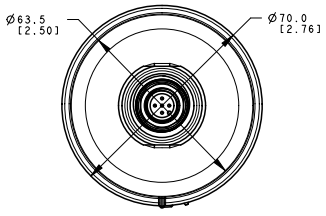
Overcurrent protection is required to be provided by end product application per the supplied table.
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.
Supply wiring leads < 24 AWG shall not be spliced.
For additional product support, go to *http://www.bannerengineering.com*.

| 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

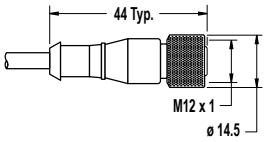
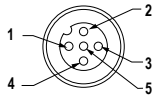
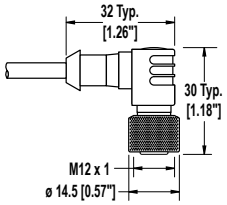
Quick Disconnect Models

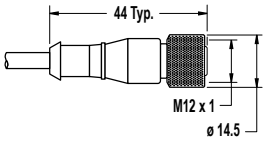
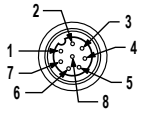
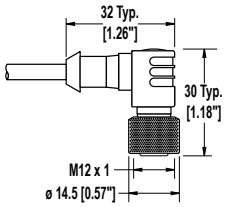


# Accessories

## Cordsets

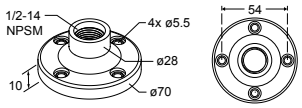
| 5-Pin Threaded M12/Euro-Style Cordsets—Single Ended | | | | |
|---|---|---|---|---|
| Model | Length | Style | Dimensions | Pinout (Female) |
| MQDC1-501.5 | 0.50 m (1.5 ft) | Straight |  | <br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Gray |
| MQDC1-506 | 1.83 m (6 ft) | | | |
| MQDC1-515 | 4.57 m (15 ft) | | | |
| MQDC1-530 | 9.14 m (30 ft) | | | |
| MQDC1-506RA | 1.83 m (6 ft) | Right-Angle |  | |
| MQDC1-515RA | 4.57 m (15 ft) | | | |
| MQDC1-530RA | 9.14 m (30 ft) | | | |

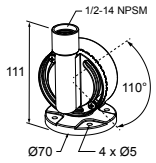
| 8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield | | | | |
|---|---|---|---|---|
| Model | Length | Style | Dimensions | Pinout (Female) |
| MQDC2S-806 | 1.83 m (6 ft) | Straight |  | <br>1 = White<br>2 = Brown<br>3 = Green<br>4 = Yellow<br>5 = Gray<br>6 = Pink<br>7 = Blue<br>8 = Red |
| MQDC2S-815 | 4.57 m (15 ft) | | | |
| MQDC2S-830 | 9.14 m (30 ft) | | | |
| MQDC2S-850 | 15.2 m (50 ft) | | | |
| MQDC2S-806RA | 1.83 m (6 ft) | Right-Angle |  | |
| MQDC2S-815RA | 4.57 m (15 ft) | | | |
| MQDC2S-830RA | 9.14 m (30 ft) | | | |
| MQDC2S-850RA | 15.2 m (50 ft) | | | |

## Elevated Mount System

| Model | Features | Components |
|---|---|---|
| SA-M30 - Black Polycarbonate | • Streamlined black PC or Gray PC thread cover<br>• Covers M30 thread on the light base<br>• Mounting hardware included |  |
| SA-M30C - Gray Polycarbonate | | |

| Model | | | Features | Components |
|---|---|---|---|---|
| Polished 304 Stainless Steel | Black Anodized Aluminum | Clear Anodized Aluminum | • Elevated-use stand-off pipe (½ in. NPSM/DN15)<br>• Polished 304 stainless steel, black anodized aluminum, or clear anodized aluminum surface<br>• ½ in. NPT thread at both ends<br>• Compatible with most industrial environments |  |
| 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 | | |
| 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<br>• Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole<br>• Mounting hardware included |  |
| SA-E12M30C - White UHMW | | | | |

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

| Foldable Mounting Brackets | | | |
|---|---|---|---|
| Model | Features | Construction | |
| SA-FFB12 | • For use with 1/2 inch stand-off pipes<br>• Stainless steel hardware | Black polycarbonate |  |
| SA-FFB12C | | Gray polycarbonate | |

## LMB Sealed Right-Angle Brackets

| Model | Description | Construction | |
|---|---|---|---|
| LMB30RA | Direct-Mount Models: Bracket kit with base, 30 mm adapter, set screw, fasteners, o-rings, and gaskets | Black polycarbonate |  |
| LMB30RAC | | Gray polycarbonate | |
| LMBE12RA | 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) | Black polycarbonate |  |
| LMBE12RAC | | Gray polycarbonate | |

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