# EZ-LIGHT® K30L Series With Independent Push Button Contact

## Features

*Compact Indicator with One, Two, or Three Colors and a Momentary Push Button Output*



- Rugged, cost-effective, and easy-to-install multicolor indicator light with pushbutton
- Waterproof IP65 construction for washdown environments
- Excellent for panel mounting or as a stand-alone device
- Immune to EMI and RFI interference
- 10 V DC to 30 V DC operation
- Cabled and Quick Disconnect models available
- Up to three independent colors in one unit

**WARNING:**

- **Do not use this device for personnel protection**
- Using this device for personnel protection could result in serious injury or death.
- This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A device failure or malfunction can cause either an energized (on) or de-energized (off) output condition.

## Models

| Family | Color 1 | Color 2 | Color 3 | Input | Output | Connector[1] |
|---|---|---|---|---|---|---|
| K30L | G | R | Y | P | PB2 | Q |
| | G = Green<br>R = Red<br>Y = Yellow<br>B = Blue<br>W = White<br>O = Orange<br>T = Turquoise<br>V = Violet<br>M = Magenta<br>X = No color in this position | | | P = PNP | PB2 = Momentary Push Button | Blank = 2 m (6.5 ft) integral PVC-jacketed cable<br>Q = Integral M12 male quick-disconnect connector<br>QP = 150 mm (6 in) PVC-jacketed cable with an M12 male quick-disconnect connector |

| Example Model | # of LED Colors | LED Indicators | Connection |
|---|---|---|---|
| K30LGXXPPB2Q | 1 | Green | Integral 4-pin M12 male quick-disconnect connector |
| K30LRXXPPB2Q | | Red | |
| K30LGRXPPB2Q | 2 | Green, Red | Integral 5-pin M12 male quick-disconnect connector |
| K30LGYXPPB2Q | | Green, Yellow | |
| K30LGRYPPB2Q | 3 | Green, Red, Yellow | Integral 8-pin M12 male quick-disconnect connector |

[1] Integral quick-disconnect connector models are listed.
- To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K30LGXXPPB2
- To order the 150 mm (6 in) PVC cable model, replace the suffix "Q" with "QP" in the model number. For example, K30LGXXPPB2QP
- Models with a quick-disconnect connector require a mating cordset.

Original Instructions
01-Oct-25

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162557
p/n: 162557 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

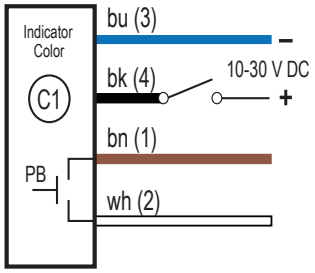
# Installation

Install the K30 at a height and location that is easy for the user and/or supervisor to see the device, and comfortable for the user to press the push-button.

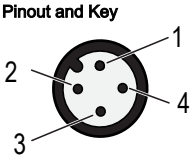
## Wiring

**4-Pin Models**

**PNP**



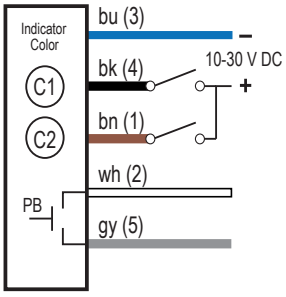

**Pinout and Key**



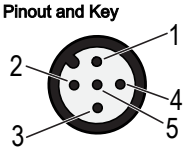

1 = Brown
2 = White
3 = Blue
4 = Black
C1 = Color 1
PB = Push Button

**5-Pin Models**

**PNP**



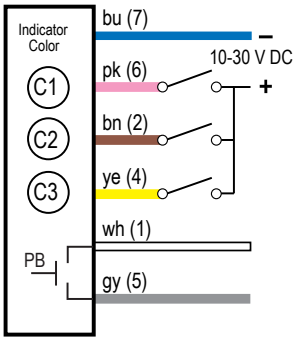

**Pinout and Key**



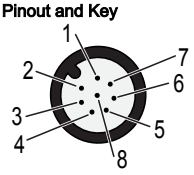

1 = Brown
2 = White
3 = Blue
4 = Black
5 = Gray
C1 = Color 1
C2 = Color 2
PB = Push Button

**8-Pin Models**

**PNP**




**Pinout and Key**




1 = White
2 = Brown
3 = Green (not used)
4 = Yellow
5 = Gray
6 = Pink
7 = Blue
8 = Red (not used)
C1 = Color 1
C2 = Color 2
C3 = Color 3
PB = Push Button

# Specifications

**Supply Voltage and Current**
10 V DC to 30 V DC at 40 mA maximum per LED color

**Supply Protection Circuitry**
Protected against reverse polarity and transient voltages

**Indicator Response Time**
ON/OFF: 1 ms maximum

**Switch Contact Rating**
150 mA at 30 V DC

**Contact Bounce**
10 ms maximum

**Environmental Rating**
IP65
Enclosure Type 13

**Construction**
Base: polycarbonate
Translucent dome: polycarbonate
Push button: thermoplastic

**Mounting Torque**
2.25 Nm (20 in·lbf) max.

**Connections**
Integral 4-pin, 5-pin, or 8-pin M12 male quick-disconnect connector, 2 m (6.5 ft) integral PVC-jacketed cable, or 150 mm (6 in) PVC-jacketed cable with a 4-pin, 5-pin, or 8-pin M12 quick-disconnect connector, depending on the model ordered

**Operating Conditions**
–40 °C to +50 °C (–40 °F to +122 °F)
90% at +50 °C maximum relative humidity (non-condensing)
Storage Temperature: –40 °C to +70 °C (–40 °F to +158 °F)

**Certifications**

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c UL us LISTED


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**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.

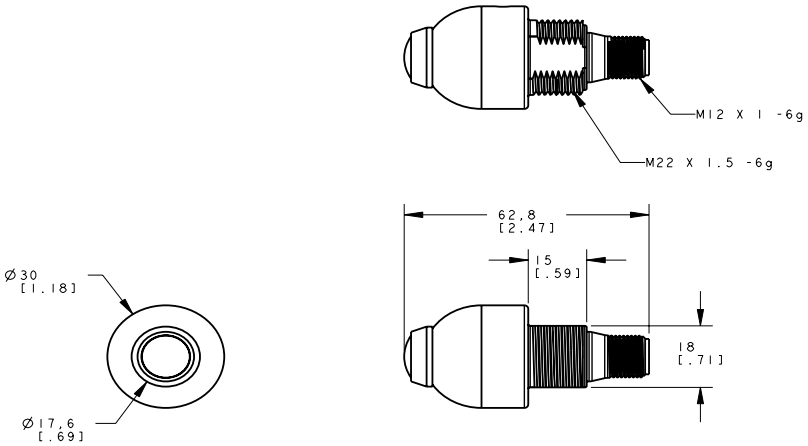
Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

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

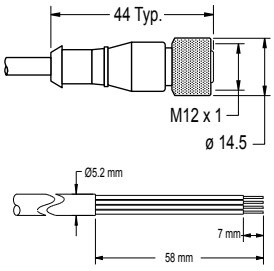
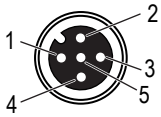
# Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.




# Accessories

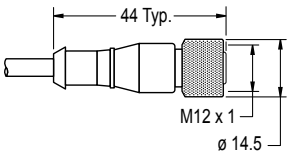
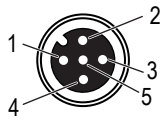
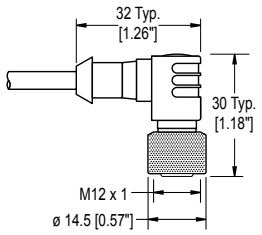
## Cordsets

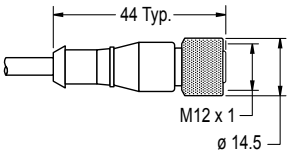
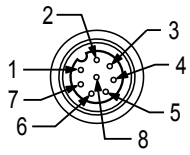
| 4-Pin Single-Ended M12 Female Cordsets | | | | | |
|---|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** | |
| **MQDC-403** | 1 m (3.28 ft) | Straight |  |  | 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Not used |
| **MQDC-406** | 2 m (6.56 ft) | | | | |
| **MQDC-410** | 3 m (9.8 ft) | | | | |
| **MQDC-415** | 5 m (16.4 ft) | | | | |
| **MQDC-430** | 9 m (29.5 ft) | | | | |
| **MQDC-450** | 15 m (49.2 ft) | | | | |
| **MQDC-460** | 18.3 m (60 ft) | | | | |
| **MQDC-470** | 21 m (68.9 ft) | | | | |
| **MQDC-4100** | 30 m (98.43 ft) | | | | |






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| 5-Pin Single-Ended M12 Female Cordsets | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** |
| **MQDC1-501.5** | 0.5 m (1.5 ft) | Straight |  | <br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Gray |
| **MQDC1-503** | 0.9 m (2.9 ft) | | | |
| **MQDC1-506** | 2 m (6.5 ft) | | | |
| **MQDC1-515** | 5 m (16.4 ft) | | | |
| **MQDC1-530** | 9 m (29.5 ft) | | | |
| **MQDC1-560** | 18 m (59 ft) | | | |
| **MQDC1-5100** | 31 m (101.7 ft) | | | |
| **MQDC1-506RA** | 2 m (6.5 ft) | Right-Angle |  | |
| **MQDC1-515RA** | 5 m (16.4 ft) | | | |
| **MQDC1-530RA** | 9 m (29.5 ft) | | | |
| **MQDC1-560RA** | 19 m (62.3 ft) | | | |

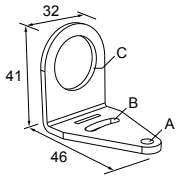
| 8-Pin Single-Ended M12 Female Shielded Cordsets | | | | | |
|---|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** | |
| **MQDC-806** | 2 m (6.56 ft) | Straight |  |  | |
| **MQDC-815** | 5 m (16.4 ft) | | | 1 = White<br>2 = Brown<br>3 = Green<br>4 = Yellow | 5 = Gray<br>6 = Pink<br>7 = Blue<br>8 = Shield |
| **MQDC-830** | 9 m (29.53 ft) | | | | |

## Brackets

**SMB22A**

- Right-angle bracket with curved slot for versatile orientation
- 12-ga. stainless steel
- Mounting hole for 22 mm sensor

**Hole center spacing:** A to B = 26.0
**Hole size:** A = ø 4.6, B = 4.6 x 16.9, C = 22.2




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