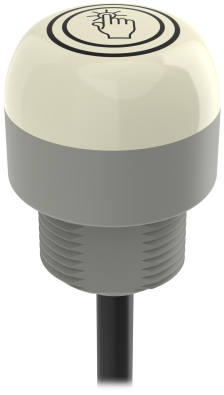
# EZ-LIGHT® Touch Gen 2 K30 FDA-Grade Series Illuminated Multipurpose Buttons

## Features

*General Purpose Multicolor Indicator with Independent Momentary Touch Button Output*



- FDA-grade materials; rated to IP67, IP68, and IP69K
- Laser-marked information withstands aggressive cleaning procedures
- Excellent immunity to false triggering by water spray, detergents, oils, and other foreign materials
- Rugged, cost-effective, and easy-to-install multicolor indicator with touch button
- Two or three independent colors in one unit: Color 3 overrides Colors 1 and 2, Color 2 overrides Color 1
- Available with PNP and NPN inputs/outputs, depending on the model
- Ergonomically designed to eliminate hand, wrist, and arm stresses associated with repeated switch operation; requires no physical force to operate
- Can be actuated with bare hands or gloves
- 12 V DC to 30 V DC operation

## Models

### 2 Color Models

| Model[1] | I/O Type | Output State | Light Color 1 (Power Applied) | Light Color 2 (Input Active) | Connection |
|---|---|---|---|---|---|
| **K30APT2FXRF2QP** | PNP | N.O. | - | Red | 2 m (6.5 ft) unterminated 3-wire PVC-jacketed cable or 150 mm (6 in) PVC-jacketed cable with a 5-pin M12 male, stainless steel quick-disconnect connector |
| **K30APT2FXGF2QP** | | | - | Green | |
| **K30APT2FGRF2QP** | | | Green | Red | |
| **K30APT2FRGF2QP** | | | Red | Green | |
| **K30ANT2FXRF2QP** | NPN | | - | Red | |
| **K30ANT2FXGF2QP** | | | - | Green | |
| **K30ANT2FGRF2QP** | | | Green | Red | |
| **K30ANT2FRGF2QP** | | | Red | Green | |

### 3 Color Model

| Model[1] | I/O Type | Output State | Color 1 | Color 2 | Color 3 | Connection |
|---|---|---|---|---|---|---|
| **K30APT2FGRYF2QP** | PNP | N.O. | Green | Red | Yellow | 2 m (6.5 ft) unterminated 3-wire PVC-jacketed cable or 150 mm 8-pin M12 male, stainless steel, quick-disconnect connector |

(1)

- To order the 2 m (6.5 ft) PVC cable model, omit the suffix "QP" in the model number. For example, K30APT2FXRF2.
- Models with a quick-disconnect connector require a mating cordset.

Original Instructions
16-Oct-25

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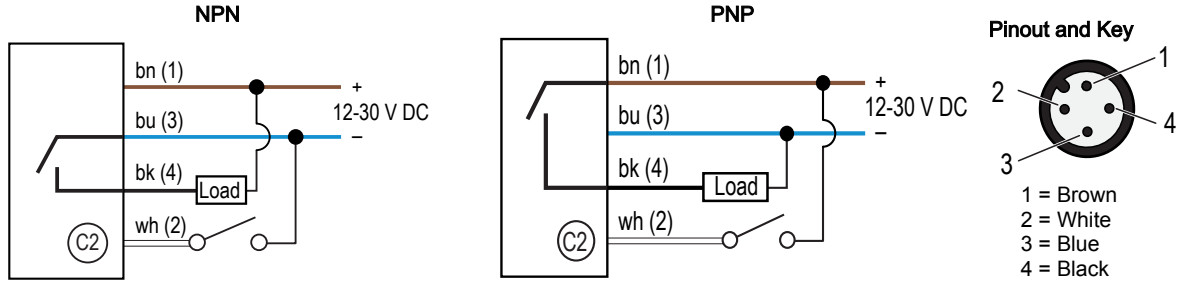
p/n: 189832 Rev. E

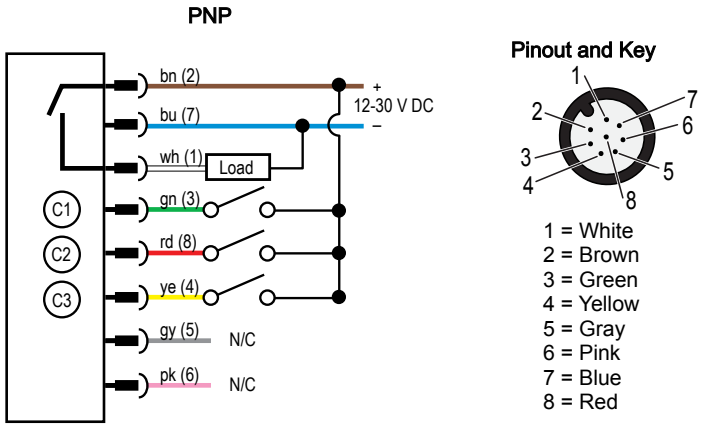
ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

# Wiring

## 1 and 2 Color Models




## 3 Color Model




**NOTE:** Cabled wiring diagrams are shown. Quick disconnect wiring diagrams are functionally identical.

# Specifications

**Supply Voltage**

12 V DC to 30 V DC

**Supply Current**

55 mA max current (exclusive of load)

**Supply/Output Protection Circuitry**

Protected against reverse polarity and transient voltages

**Output Rating**

**Maximum Load:** 150 mA

**ON-state saturation voltage:** < 2 V DC at 10 mA; < 2.5 V DC at 150 mA

**OFF-state leakage current:** <10 µA at 30 V DC

**Vibration and Mechanical Shock**

Vibration: 10 Hz to 55 Hz, 1.0 mm peak-to-peak amplitude per IEC 60068-2-6

Shock: 30G 11 ms duration, half sine wave per IEC 60068-2-27

**Output Response Time**

150 milliseconds On and Off

**Power-Up Delay**

300 milliseconds

**Connections**

2 m (6.5 ft) integral PVC-jacketed cable or 150 mm (6 inch) PVC-jacketed cable with a 5-pin or 8-pin M12 male, stainless steel, quick-disconnect connector

**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 |

**Environmental Rating**

IP67, IP69K per ISO 20653

**Operating Conditions**

**Temperature:** –40 °C to +50 °C (–40 °F to +122 °F)

**Humidity:** 90% at +50 °C maximum relative humidity (non-condensing)

**Storage Temperature**

–40 °C to +70 °C (–40 °F to +158 °F)

**Construction**

Base, dome, and nut: FDA-grade copolyester

**Mounting**

M22 × 1.5 Threaded base, max torque 2.25 N·m (20 in-lbf)

**Certifications**

Banner Engineering BV
Park Lane, Culliganlaan 2F bus 3
1831 Diegem, BELGIUM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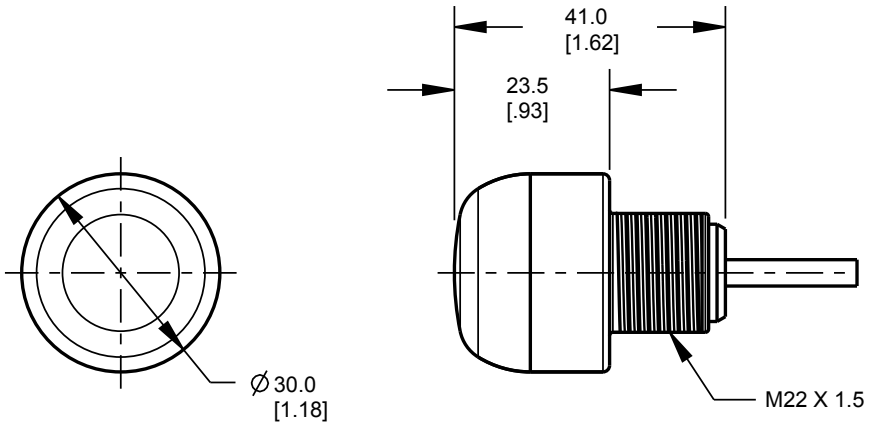
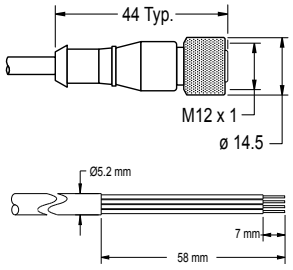
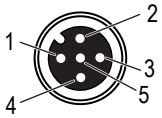
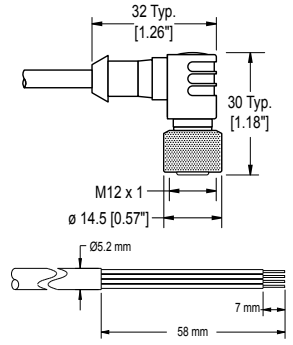
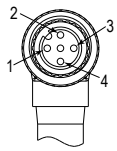
## Dimensions

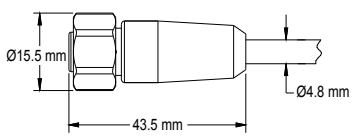
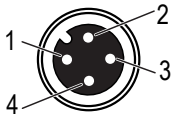
All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.




# Accessories

## Cordsets for 2 Color Models

| 4-Pin Single-Ended M12 Female Cordsets | | | | | |
|---|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** | |
| **MQDC-406** | 2 m (6.56 ft) | Straight |  |  | 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Not used |
| **MQDC-415** | 5 m (16.4 ft) | | | | |
| **MQDC-430** | 9 m (29.5 ft) | | | | |
| **MQDC-450** | 15 m (49.2 ft) | | | | |
| **MQDC-406RA** | 2 m (6.56 ft) | Right-Angle |  |  | |
| **MQDC-415RA** | 5 m (16.4 ft) | | | | |
| **MQDC-430RA** | 9 m (29.5 ft) | | | | |
| **MQDC-450RA** | 15 m (49.2 ft) | | | | |

| 4-Pin Single-Ended M12 Female Washdown, Stainless Steel Cordsets | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** |
| **MQDC-WDSS-0406** | 2 m (6.56 ft) | Straight |  | <br>1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black |
| **MQDC-WDSS-0415** | 5 m (16.4 ft) | | | |
| **MQDC-WDSS-0430** | 9 m (29.5 ft) | | | |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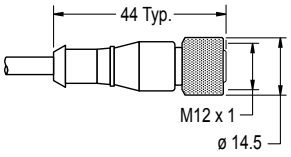
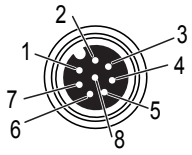
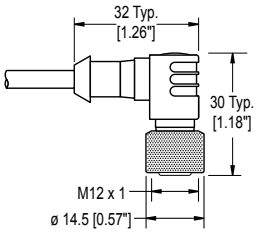
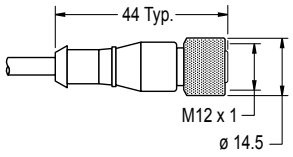
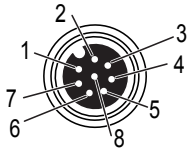
# Cordsets for 3 Color Models

| 8-Pin Single-Ended M12 Female Open-Shielded Cordsets | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** |
| **MQDC2S-806** | 2.04 m (6.7 ft) | Straight |  |  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** | 5.04 m (16.54 ft) | | | |
| **MQDC2S-830** | 10.04 m (32.95 ft) | | | |
| **MQDC2S-850** | 16 m (52.49 ft) | | | |
| **MQDC2S-806RA** | 2 m (6.56 ft) | Right-Angle |  | |
| **MQDC2S-815RA** | 5 m (16.4 ft) | | | |
| **MQDC2S-830RA** | 10 m (32.81 ft) | | | |
| **MQDC2S-850RA** | 16 m (52.49 ft) | | | |

| 8-Pin Single-Ended M12 Female Open-Shielded, Washdown, Stainless Steel Cordsets | | | | | |
|---|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** | |
| **MQDC-WDSS-0806** | 2 m (6.56 ft) | Straight |  |  | |
| **MQDC-WDSS-0815** | 5 m (16.4 ft) | | | | |
| **MQDC-WDSS-0830** | 9 m (29.53 ft) | | | 1 = White<br>2 = Brown<br>3 = Green<br>4 = Yellow | 5 = Gray<br>6 = Pink<br>7 = Blue<br>8 = Red |

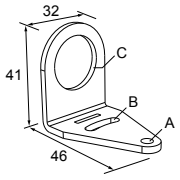
# Brackets

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

**SMB22A**

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

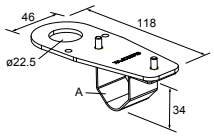
**Hole center spacing:** A to B = 26.0
**Hole size:** A = ø 4.6, B = 4.6 x 16.9, C = 22.2




**SMB22FVK**

- V-clamp, flat bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions
- 22 mm hole for mounting sensor

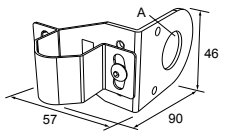
**Hole size:** A = ø 22.5




**SMB22RAVK**

- V-clamp, right-angle bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions
- 22 mm hole for mounting sensor

**Hole size:** A = ø 22.5





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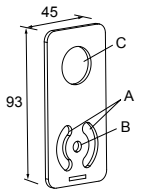
**SMBAMS22P**

- Flat SMBAMS series bracket with 22 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel

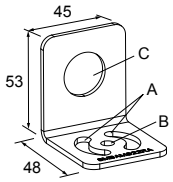
**Hole center spacing:** A = 26.0, A to B = 13.0
**Hole size:** A = 26.8 x 7.0, B = ø 6.5, C = ø 22.5




**SMBAMS22RA**

- Right-angle SMBAMS series bracket with 22 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel

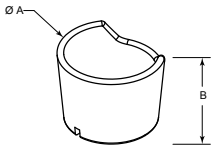
**Hole center spacing:** A = 26.0, A to B = 13.0
**Hole size:** A = 26.8 x 7.0, B = ø 6.5, C = ø 22.5




**TC-K30-CL**

- Touch cover

**Diameter:** A = 40.7 mm
**Height:** B = 31 mm

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