# EZ-LIGHT® Touch K30 Series Illuminated Multipurpose Buttons

## Features

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



- Rugged, cost-effective, and easy-to-install multicolor indicator with touch button
- Waterproof construction for washdown environments
- 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

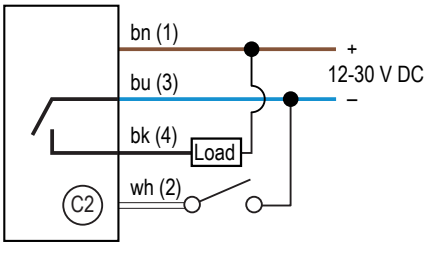
## Models

| Model[1] | I/O Type | Output State | Light Color 1 (Power Applied) | Light Color 2 (Input Active) | Connection |
|---|---|---|---|---|---|
| K30APTXRF2Q | PNP | N.O. | - | Red | Integral 4-pin M12 male quick-disconnect connector |
| K30APTXGF2Q | | | - | Green | |
| K30APTGRF2Q | | | Green | Red | |
| K30APTRGF2Q | | | Red | Green | |
| K30ANTXRF2Q | NPN | | - | Red | |
| K30ANTXGF2Q | | | - | Green | |
| K30ANTGRF2Q | | | Green | Red | |
| K30ANTRGF2Q | | | Red | Green | |

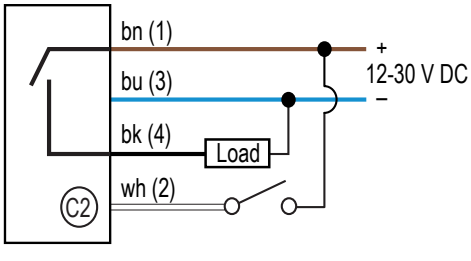
## Wiring

Cabled wiring diagrams are shown. Quick-disconnect wiring diagrams are functionally identical.

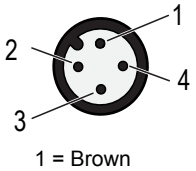
**NPN**




**PNP**




**Pinout and Key**




1 = Brown
2 = White
3 = Blue
4 = Black

## Specifications

**Supply Voltage**
12 V DC to 30 V DC

**Supply Current**
55 mA max current (exclusive of load)

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

(1)

- To order the 150 mm (6 in) PVC cable model with a 4-pin M12 male quick-disconnect connector, replace the suffix "Q" with "QP" in the model number. For example, K30APTXRF2QP.
- To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K30APTXRF2.
- Models with a quick-disconnect connector require a mating cordset.

Original Instructions
09-Oct-25

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170456
p/n: 170456 Rev. E

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

### 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

### Environmental Rating

IP67, IP69K per ISO 20653

Cabled models also meet IP69K per ISO 20653 if the cable and cable entrance are protected from high-pressure spray.

Enclosure Type 4X, 13

### 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)

### Vibration and Mechanical Shock

All models meet Mil. Std. 202F requirements method 201A (vibration: 10 Hz to 60 Hz max., double amplitude 0.06 in. maximum acceleration 10G). Also meets IEC 947-5-2; 30G 11 ms duration, half sine wave.

### Output Response Time

150 milliseconds On and Off

### Power-Up Delay

300 milliseconds

### Connections

Integral 4-pin M12 male quick-disconnect connector; 2 m (6.5 ft) integral PVC-jacketed cable; 150 mm (6 in) PVC-jacketed cable with a 4-pin M12 male quick-disconnect connector

### Construction

Housing: polycarbonate

Translucent dome: polycarbonate

Mounting nut: PBT

### Mounting

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

### 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.

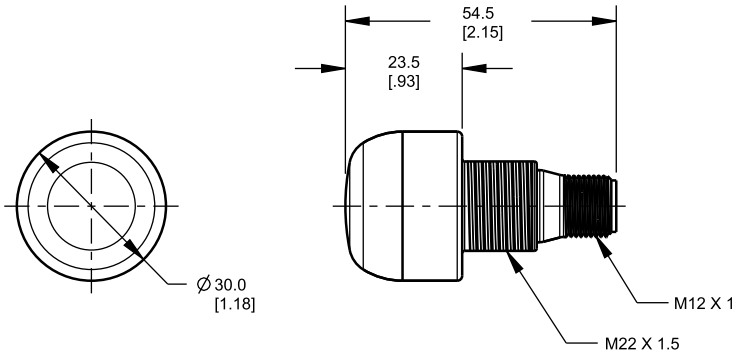
| Supply Wiring (AWG) | Required Overcurrent Protection (A) | Supply Wiring (AWG) | Required Overcurrent Protection (A) |
|---|---|---|---|
| 20 | 5.0 | 26 | 1.0 |
| 22 | 3.0 | 28 | 0.8 |
| 24 | 2.0 | 30 | 0.5 |

### Certifications

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

## Dimensions

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

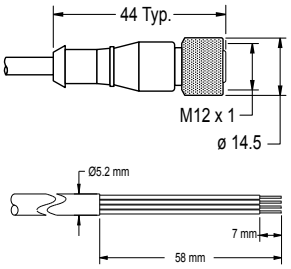
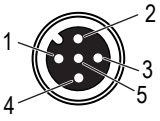
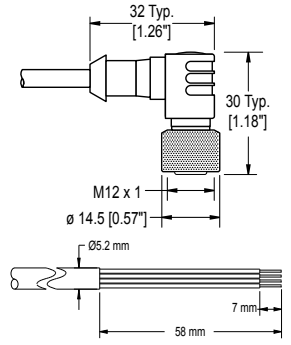
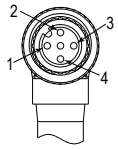




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# Accessories

## Cordsets

| 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) | | | | |

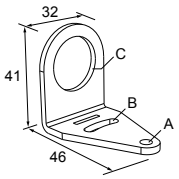
## Brackets

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

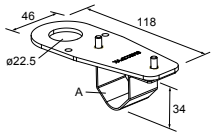
**Hole center spacing:** A to B = 26.0
**Hole size:** A = ø 4.6, B = 4.6 x 16.9, C = 22.2




**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

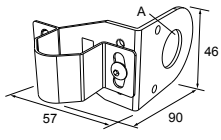
**Hole size:** A = ø 22.5




**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



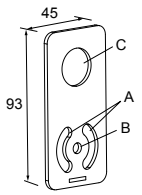


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**SMBAMS22P**

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

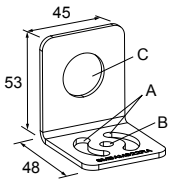
**Hole center spacing:** A = 26.0, A to B = 13.0
**Hole size:** A = 26.8 x 7.0, B = ø 6.5, C = ø 22.5




**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

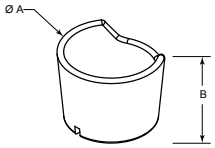
**Hole center spacing:** A = 26.0, A to B = 13.0
**Hole size:** A = 26.8 x 7.0, B = ø 6.5, C = ø 22.5




**TC-K30-CL**

- Touch cover

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




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