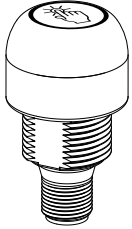


# EZ-LIGHT® Touch K30 Series Illuminated Multipurpose Buttons



## Datasheet

General purpose multicolor indicator with independent momentary touch button output

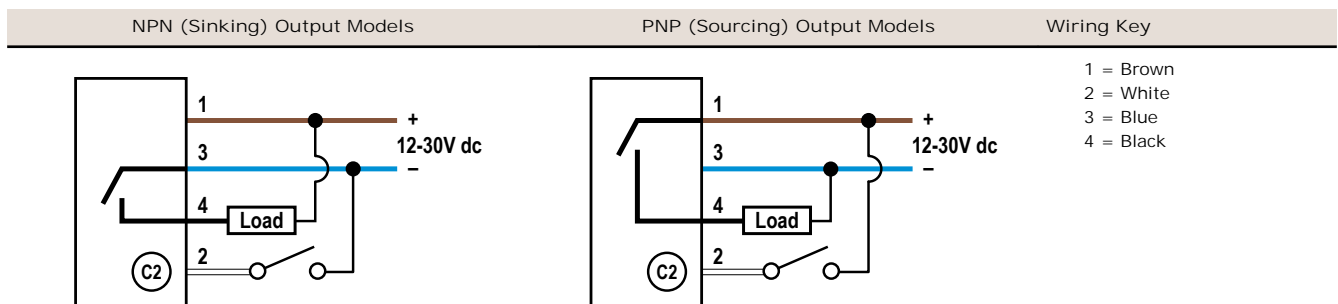


- Rugged, cost-effective, and easy-to-install multicolor indicator with touch button
- Waterproof IP69K construction for washdown environments
- Two independent colors in one unit—Color 2 overrides Color 1
- Available with PNP and NPN inputs/outputs, depending on model
- Ergonomically designed to eliminate hand, wrist, and arm stresses associated with repeated switch operation; require no physical force to operate
- Can be actuated with bare hands or in gloves
- 12 V dc to 30 V dc operation

## Models

Model <sup>1</sup>	I/O Type	Output State	Light Color 1 (Power Applied)	Light Color 2 (Input Active)	Connection	
K30APT XRF2Q	PNP	N.O.	-	Red	Integral 4-pin M12/Euro-style male quick disconnect (QD)	
K30APT XGF2Q			-	Green		
K30APT GRF2Q			Green	Red		
K30APTRGF2Q			Red	Green		
K30ANT XRF2Q	NPN		-	Red		Integral 4-pin M12/Euro-style male quick disconnect (QD)
K30ANT XGF2Q			-	Green		
K30ANT GRF2Q			Green	Red		
K30ANTRGF2Q			Red	Green		

## Wiring



Cabled wiring diagrams are shown. Quick disconnect (QD) wiring diagrams are functionally identical.

<sup>1</sup> Integral QD models only are listed.

- To order the 4-pin 150 mm (5.9 in) Euro-style PVC pigtail models, replace suffix Q with QP in the model number (example, K30APT XRF2QP).
- To order the 2 m (6.5 ft) cable models, omit suffix Q from the model number (example, K30APT XRF2).
- A model with a QD requires a mating cable (see Cordsets).



## 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

**Environmental Rating**  
IEC IP67, IP69K per DIN 40050-9.  
Cabled models also meet IP69K 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.

**Certifications**



**Output Response Time**  
150 milliseconds On and Off

**Power-Up Delay**  
300 milliseconds

**Connections**  
Integral 4-pin M12/Euro-style male quick disconnect (QD); 2 m (6.5 ft) PVC integral cable; 150 mm (6 in) PVC cable with a 4-pin M12/Euro-style male quick disconnect (QD)

**Construction**  
Housing: polycarbonate  
Translucent dome: polycarbonate  
Mounting nut: PBT

**Mounting**  
M22 x 1.5 Threaded base, max torque 2.25 N-m (20 in-lbf)

**Required Overcurrent Protection**



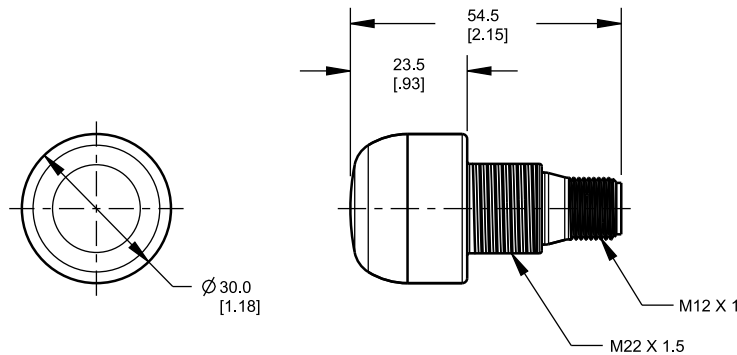
**WARNING:** Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

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](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

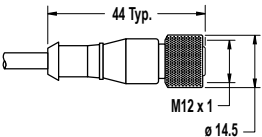
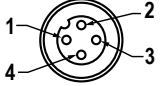
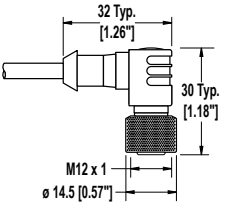
## Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise.



## Accessories

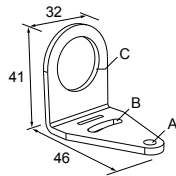
### Cordsets

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)	Straight		 <p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)			
MQDC-406RA	1.83 m (6 ft)	Right-Angle		
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 ft)			

### Brackets

#### SMB22A

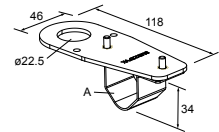
- Right-angle bracket with curved slot for versatile orientation
- 12-ga. stainless steel
- Mounting hole for 22 mm sensor



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

#### SMB22FVK

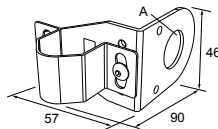
- V-clamp, flat bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions
- 22 mm hole for mounting sensor



Hole size: A = ø 22.5

#### SMB22RAVK

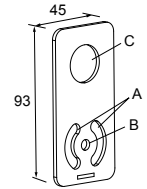
- V-clamp, right-angle bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions
- 22 mm hole for mounting sensor



Hole size: A = ø 22.5

#### SMBAMS22P

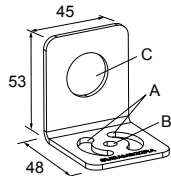
- Flat SMBAMS series bracket with 22 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



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

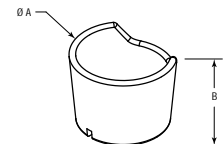
- Right-angle SMBAMS series bracket with 22 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



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  
Height: B = 31

All measurements are listed in millimeters, unless noted otherwise.

## Banner Engineering Corp. Limited Warranty

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