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

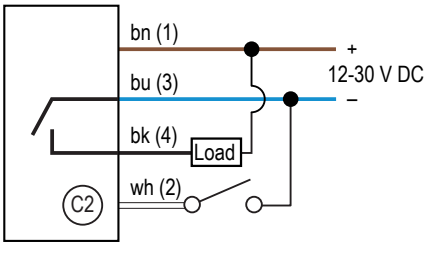
Models

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	

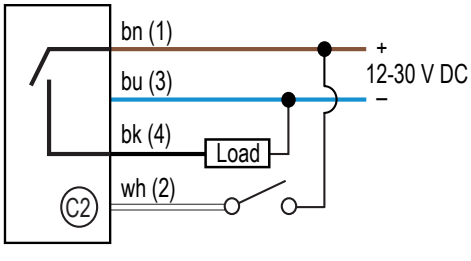
Wiring

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

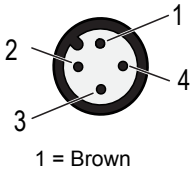
NPN



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.

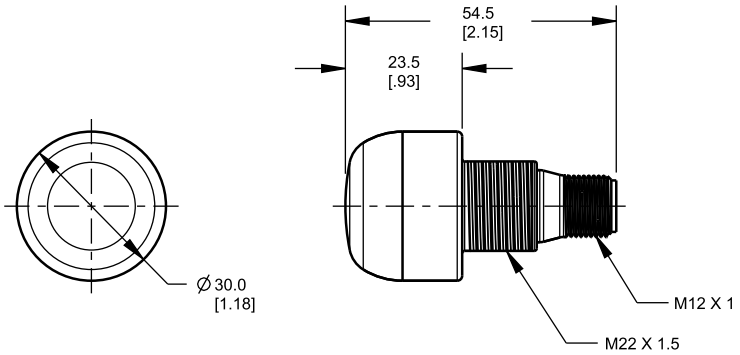
Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	2.0	30	0.5

Certifications

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

Dimensions

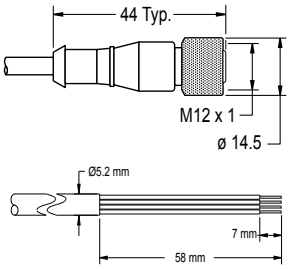
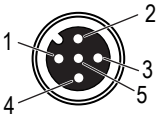
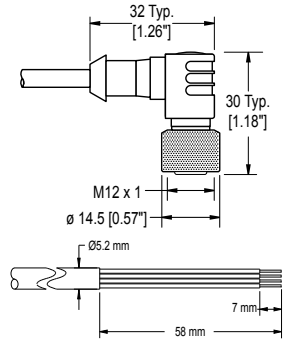
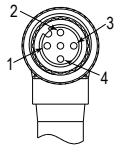
All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.



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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 2 = White 3 = Blue 4 = Black 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)				

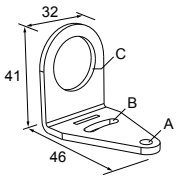
Brackets

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

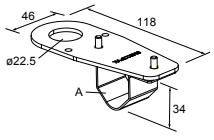
Hole center spacing: A to B = 26.0
Hole size: A = ø 4.6, B = 4.6 x 16.9, C = 22.2



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

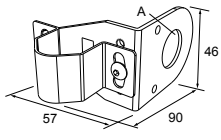
Hole size: A = ø 22.5



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

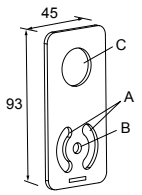


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SMBAMS22P

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

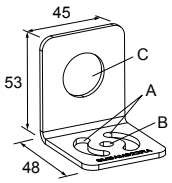
Hole center spacing: A = 26.0, A to B = 13.0
Hole size: A = 26.8 x 7.0, B = ø 6.5, C = ø 22.5



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

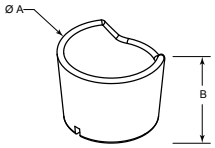
Hole center spacing: A = 26.0, A to B = 13.0
Hole size: A = 26.8 x 7.0, B = ø 6.5, C = ø 22.5



TC-K30-CL

- Touch cover

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



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