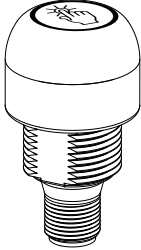


EZ-LIGHT® Touch K30 Series Illuminated Buttons



Datasheet

Lighted Touch Button with Bipolar Outputs

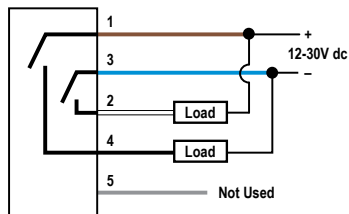


- Rugged, cost-effective, and easy-to-install touch button with multicolor light
- Momentary versions remain activated as long as touch is present
- Latching versions start up not activated and toggle between activated and not activated on successive touches
- Waterproof IP69K construction for washdown environments
- 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	Function	Output	Light (not activated)	Light (activated)	Connection ¹		
K30ALBTXGHQ	Latching	Bipolar, N.O.	-	Green	Integral 5-pin M12/Euro-style male quick disconnect		
K30RLBTXGHQ		Bipolar, N.C.					
K30ABTXGHQ	Momentary	Bipolar, N.O.					
K30RBTXGHQ		Bipolar, N.C.					
K30ALBTGGHQ	Latching	Bipolar, N.O.				Green	Green
K30RLBTGGHQ		Bipolar, N.C.					
K30ABTGGHQ	Momentary	Bipolar, N.O.					
K30RBTGGHQ		Bipolar, N.C.					
K30ALBTRGHQ	Latching	Bipolar, N.O.	Red	Green			
K30RLBTRGHQ		Bipolar, N.C.					
K30ABTRGHQ	Momentary	Bipolar, N.O.					
K30RBTRGHQ		Bipolar, N.C.					

Wiring Diagrams



Color Key

- 1 = Brown
- 2 = White
- 3 = Blue
- 4 = Black
- 5 = Gray

¹ Integral 5-pin M12/Euro-style quick disconnect models are listed.

- To order the 150 mm (6 in) PVC cable model with a 5-pin M12/Euro-style quick disconnect, replace the suffix "Q" with "QP" in the model number. For example, K30ALBTXGHQP.
- To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K30ALBTXGH.
- Models with a quick disconnect require a mating cordset.





NOTE: Cabled wiring diagrams are shown. Quick disconnect (QD) 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 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

Mounting
M22 × 1.5 Threaded base, max torque 2.25 Nm (20 in-lbf)

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
−40 °C to +50 °C (−40 °F to +122 °F)
90% at 50 °C maximum relative humidity (non-condensing)

Storage
−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
Latching models start up in a 'not activated' state

Connections
5-pin integral M12/Euro-style QD, 2 m (6.5 ft) PVC integral cable, or 5-pin 150 mm (6 in) M12/Euro-style PVC cable QD

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

Required Overcurrent Protection



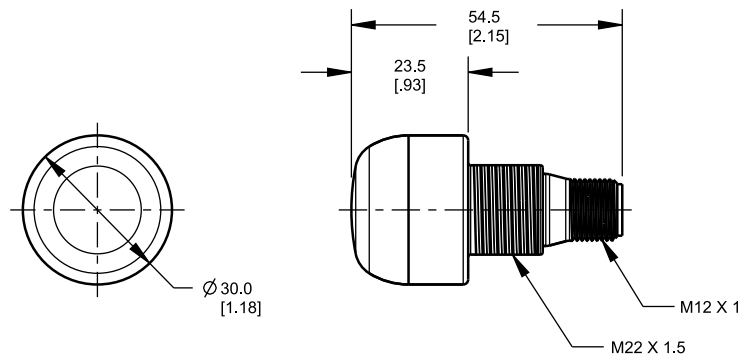
WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

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 (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

5-Pin Threaded M12/Euro-Style Cordsets—Single Ended				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC1-501.5	0.50 m (1.5 ft)	Straight		<p>1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray</p>
MQDC1-506	1.83 m (6 ft)			
MQDC1-515	4.57 m (15 ft)			
MQDC1-530	9.14 m (30 ft)			
MQDC1-506RA	1.83 m (6 ft)	Right-Angle		
MQDC1-515RA	4.57 m (15 ft)			
MQDC1-530RA	9.14 m (30 ft)			

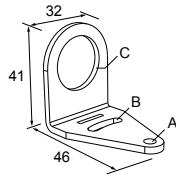
5-Pin Threaded M12/Euro-Style Cordsets—Washdown Stainless Steel				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-WDSS-0506	1.83 m (6 ft)	Straight		<p>1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray</p>
MQDC-WDSS-0515	4.57 m (15 ft)			
MQDC-WDSS-0530	9.14 m (30 ft)			

5-Pin Threaded M12/Euro-Style Cordsets—Washdown, with Shield				
Model	Length	Style	Dimensions	Pinout (Female)
MQDCWD-506	1.83 m (6 ft)	Straight		<p>1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray</p>
MQDCWD-530	9.14 m (30 ft)			

Brackets

SMB22A

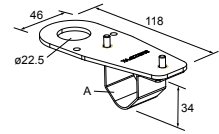
- Right-angle bracket with curved slot for versatile orientation
- 12-ga. stainless steel
- Mounting hole for 22 mm sensor



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

SMB22FVK

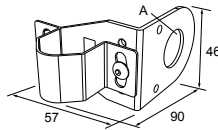
- V-clamp, flat bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions
- 22 mm hole for mounting sensor



Hole size: A = \varnothing 22.5

SMB22RAVK

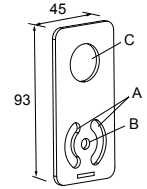
- V-clamp, right-angle bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions
- 22 mm hole for mounting sensor



Hole size: A = \varnothing 22.5

SMBAMS22P

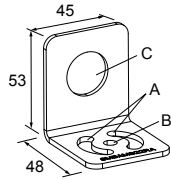
- Flat SMBAMS series bracket with 22 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



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

SMBAMS22RA

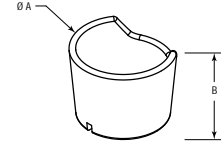
- Right-angle SMBAMS series bracket with 22 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



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

TC-K30-CL

- Touch cover



Diameter: A = 40.7
Height: B = 31

All measurements are listed in millimeters, unless noted otherwise.

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