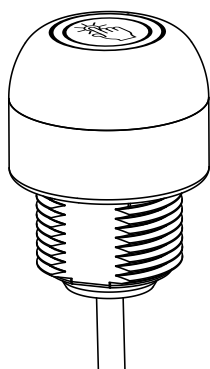


EZ-LIGHT® Touch Gen 2 K30 FDA-Grade Illuminated Buttons



Datasheet

Lighted touch button with bipolar outputs



- FDA-grade materials; rated to IEC 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 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
- 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 to 30 V dc operation

Models

Model ¹	Function	Output	Light (not activated)	Light (activated)	Connection
K30ALBT2FXGHQP	Latching	Bipolar, N.O.	-	Green	150 mm (6 in) pigtail PVC cable with a 5-pin M12/ Euro-style male, stainless steel, quick disconnect (QD)
K30RLBT2FXGHQP		Bipolar, N.C.			
K30ABT2FXGHQP	Momentary	Bipolar, N.O.			
K30RBT2FXGHQP		Bipolar, N.C.			
K30ALBT2FGGHQP	Latching	Bipolar, N.O.	Green	Green	
K30RLBT2FGGHQP		Bipolar, N.C.			
K30ABT2FGGHQP	Momentary	Bipolar, N.O.			
K30RBT2FGGHQP		Bipolar, N.C.			
K30ALBT2FRGHQP	Latching	Bipolar, N.O.	Red	Green	
K30RLBT2FRGHQP		Bipolar, N.C.			
K30ABT2FRGHQP	Momentary	Bipolar, N.O.			
K30RBT2FRGHQP		Bipolar, N.C.			

Specifications

Supply Voltage
12 to 30 V dc

Supply Current
55 mA max current (exclusive of load)

Supply Protection Circuitry
Protected against reverse polarity and transient voltages

Power-Up Delay
300 milliseconds
Latching models start up in a 'not activated' state

Output Rating

Maximum Load: 150 mA
ON-state saturation voltage: < 2 V at 10 mA dc; < 2.5 V at 150 mA dc
OFF-state leakage current: <10 µA at 30 V dc

Output Response Time

150 milliseconds ON and OFF

¹ To order the 2 m (6.5 ft) cable models, omit suffix QP from model number (example, K30ALBT2FXGH). A model with a QD requires a mating cable (see [Cordsets](#) on page 3).



Connections

2 m (6.5 ft) PVC integral cable, or 150 mm (6 in) pigtail PVC cable with a 5-pin M12/Euro-style male, stainless steel, quick disconnect (QD)

Environmental Rating

IEC IP67, IP69K per DIN 40050-9.

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

Vibration 10 Hz to 55 Hz 1.0 mm p-p amplitude per IEC 60068-2-6

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

Certifications**Construction**

Base, dome, and nut: FDA-grade polycarbonate

Mounting

M22 × 1.5 Threaded base, max torque 2.25 Nm (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.

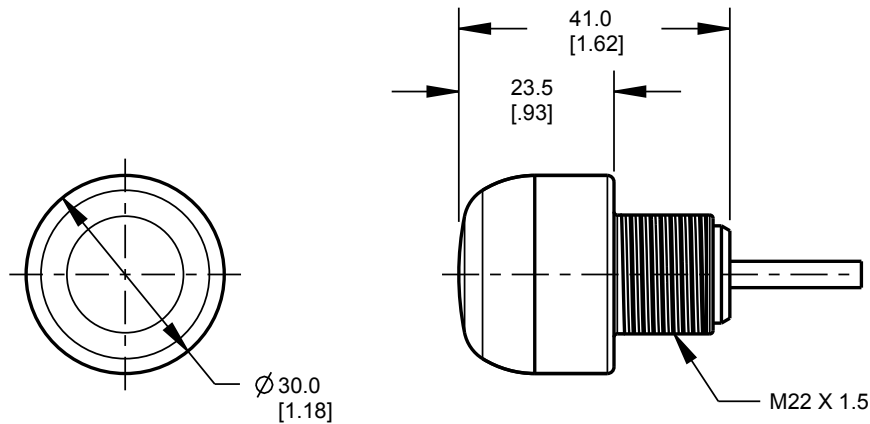
Overcurrent protection is required to be provided by end product application per the supplied table.

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.

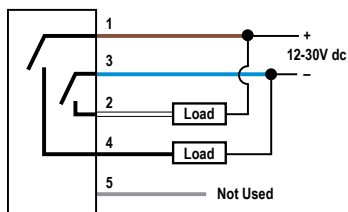
For additional product support, go to <http://www.bannerengineering.com>.

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**Wiring Diagram**

Bipolar

Color Key

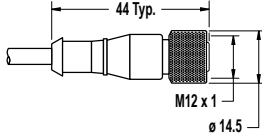
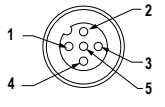
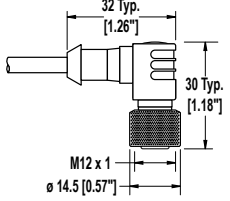


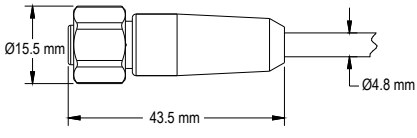
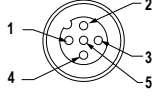
1 = Brown
2 = White
3 = Blue
4 = Black
5 = Gray

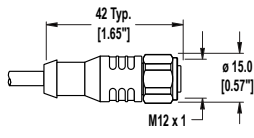
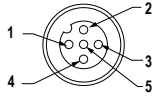
Cabled wiring diagrams are shown. Quick disconnect (QD) wiring diagrams are functionally identical.

Accessories

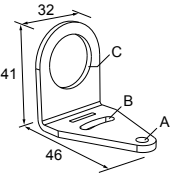
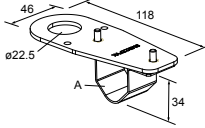
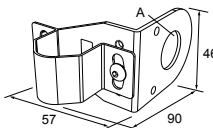
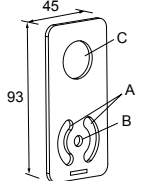
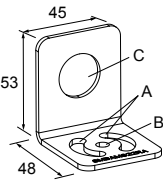
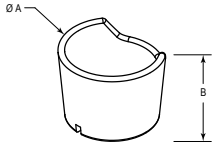
Cordsets

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