EZ-LIGHT® Touch Gen 2 K30 Series Illuminated **Buttons**



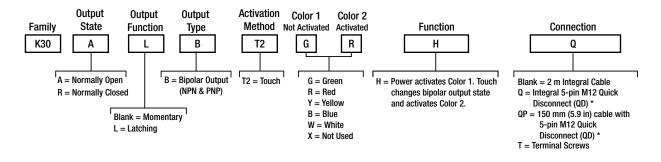
Datasheet

A.

Lighted Touch Button with Bipolar Outputs

- 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
- Latching versions start up not activated and toggle between activated and not activated on successive touches
- Waterproof IP69K per DIN 40050-9 construction for washdown environments
- 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 .
- Five color options available •
- Terminal connection models available for panel wiring applications

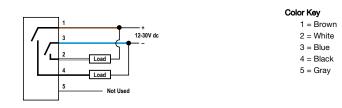
Models



* QD model requires mating cordset

Sample Model	Description
K30ALBT2GRH	Normally open output state, latching output function with bipolar output and two touch activation method. Color 1: Green (not activated), Color 2: Red (activated). Power activates color 1. Touch changes bipolar output state and activates color 2. Two-meter integral cable connection.
K30ABT2XGHT	Normally open output state, momentary output function with bipolar output. Color 1: None, Color 2: Green (activated). Touch changes bipolar output state and activates color 2. Terminal screws.
K30RBT2RGHQ	Normally closed output state, momentary output function with bipolar output. Color 1: Red (not activated), Color 2: Green (activated). Touch changes bipolar output state and activates color 2. Integral 5-pin M12 quick disconnect connection.

Wiring Diagrams



Note: Cabled wiring diagrams are shown. Quick disconnect wiring diagrams are functionally identical.



Specifications

Supply Voltage 12 V DC to 30 V DC Supply Current 55 mA max current (exclusive of load)	Mounting nu	dome: polycarbona t: PBT	te	
Supply Protection Circuitry Protected against reverse polarity and transient voltages	Indicator Chara	cteristics		
Froidected against reverse polarity and transient voltages Touch Dwell Time (momentary models only) If a touch dwells for longer than 60 seconds, the output and indicator color will	Color		elength (nm) or Color rature (CCT)	Lumen Output (Typical at 25 °C)
revert back to the untouched state.	Green	520	- 535 nm	4.4
Output Response Time	Red	620	- 630 nm	1.7
150 milliseconds ON and OFF	Yellow	585	- 595 nm	4.4
Output Rating Maximum Load: 150 mA	Blue	465	- 475 nm	1.0
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	White	566	5 - 9000K	5.0
Power-Up Delay 300 milliseconds Latching models start up in a 'not activated' state				
Mounting M22 × 1.5 Threaded base, max torque 2.25 Nm (20 in lbf)	Required Overc	urrent Protection		
Connections 5-pin integral M12 QD, 2 m (6.5 ft) PVC integral cable, or 150 mm (6 in) 5-pin M12 PVC cable with QD	$\underline{\mathbb{V}}$	qualified p	Electrical connections personnel in accordance lectrical codes and regu	e with local and
Environmental Rating Rated IEC IP67, and IP69K per DIN 40050-9. Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray. Indicator side of terminal models meet IEC IP67, and IP69K when installed in an enclosure. Screw connection points meet IEC IP00. Meets UL type 4X and 13, when used in a suitable enclosure.	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)	
Operating Conditions -40 °C to +50 °C (-40 °F to +122 °F)	Supply			
	Supply	20 22		5.0 3.0

Vibration and Mechanical Shock Vibration: 10 Hz to 55 Hz, 1.0 mm peak-to-peak amplitude per IEC 60068-2-6 Shock: 30G 11 ms duration, half sine wave per IEC 60068-2-27

Certifications



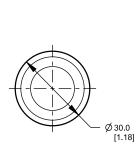
Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Lumen Output (Typical at 25 °C)
Green	520 - 535 nm	4.4
Red	620 - 630 nm	1.7
Yellow	585 - 595 nm	4.4
Blue	465 - 475 nm	1.0
White	5665 - 9000K	5.0

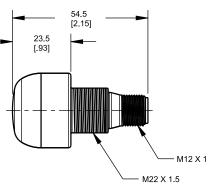
Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Dimensions

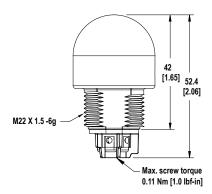
All measurements are listed in millimeters [inches], unless noted otherwise.

Quick-Disconnect Models





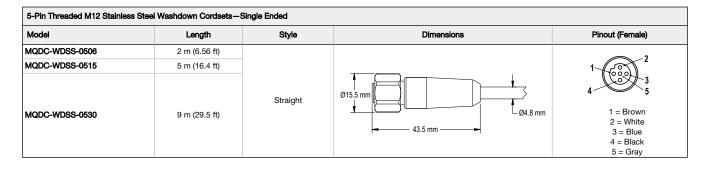
Terminal Models



Accessories

Cordsets

5-Pin Threaded M12 Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC1-501.5	0.5 m (1.5 ft)		44 Typ		
MQDC1-506	2 m (6.5 ft)		44 iyp.		
MQDC1-515	5 m (16.4 ft)	Straight			
MQDC1-530	9 m (29.5 ft)		M12 x 1 — ø 14.5 —		
MQDC1-506RA	2 m (6.5 ft)				
MQDC1-515RA	5 m (16.4 ft)		, 32 Тур.		
MQDC1-530RA	9 m (29.5 ft)	Right-Angle	(1.26") 30 Typ. (1.18") ↓ 0 14.5 [0.57"] ↓ ↓	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray	



5-Pin Threaded M12 Washdown Cordsets with Shield-Single Ended				
Model	Length	Style Dimensions		Pinout (Female)
MQDCWD-506	2 m (6.56 ft)			
MQDCWD-530	9 m (29.5 ft)	Straight	42 Typ. [1.55"] 0 15.0 [0.57"] M12 x 1 0	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray

Brackets

SMB22A

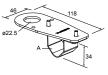
- Right-angle bracket with curved slot for versatile orientation
 12-ga. stainless steel
 Mounting hole for 22 mm sensor



SMB22FVK

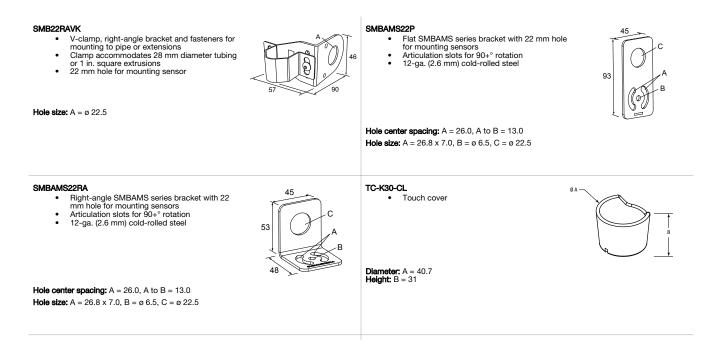
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- VK V-clamp, flat bracket and fasteners for mounting to pipe or extensions Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions 22 mm hole for mounting sensor •
- •



Hole size: A = ø 22.5

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



All measurements are listed in millimeters, unless noted otherwise.

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FCC Part 15 and CAN ICES-3 (B)/NMB-3(B)

This device complies with part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions:

This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reprint or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the manufacturer.

