Features

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
- 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; requires no physical force to operate
- Can be actuated with bare hands or gloves
- 12 V DC to 30 V DC operation

WARNING:

- **Do not use this device for personnel protection**
- Using this device for personnel protection could result in serious injury or death.
- This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A device failure or malfunction can cause either an energized (on) or de-energized (off) output condition.

Models

Model	Function	Output	Light (not activated)	Light (activated)	Connection[1]
K70ABT2XGHQ	Momentary	Bipolar, N.O.	-	Green	Integral 5-pin M12 male quick-disconnect connector
K70ABT2XGH					2 m (6.5 ft) integral PVC-jacketed cable

The following models are no longer available for order but are still covered by the information in this document.

Model[2]	Function	Output	Light (not activated)	Light (activated)	Connection
K70ALBT2XGHQ	Latching	Bipolar, N.O.	-	Green	Integral 5-pin M12 male quick-disconnect connector
K70RLBT2XGHQ		Bipolar, N.C.			
K70RBT2XGHQ	Momentary	Bipolar, N.C.			
K70ALBT2GGHQ	Latching	Bipolar, N.O.	Green	Green	
K70RLBT2GGHQ		Bipolar, N.C.			
K70ABT2GGHQ	Momentary	Bipolar, N.O.			
K70RBT2GGHQ		Bipolar, N.C.			
K70ALBT2RGHQ	Latching	Bipolar, N.O.	Red	Green	
K70RLBT2RGHQ		Bipolar, N.C.			
K70ABT2RGHQ	Momentary	Bipolar, N.O.			
K70RBT2RGHQ		Bipolar, N.C.			

[1] Models with a quick-disconnect connector require a mating cordset.
[2] Integral 5-pin M12 quick-disconnect connector models are listed.
- To order the 150 mm (6 in) PVC cable model with a 5-pin M12 quick-disconnect connector, replace the suffix "Q" with "QP" in the model number. For example K70ALBT2XGHQP.
- To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K70ALBT2XGH.
- Models with a quick-disconnect connector require a mating cordset.

Original Instructions
04-May-26

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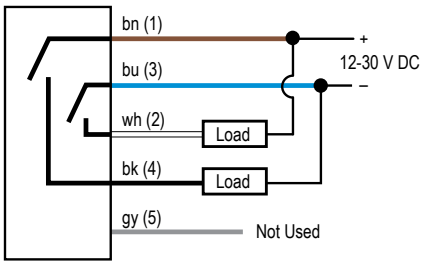
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p/n: 189840 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

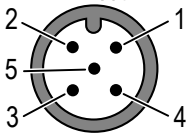
Wiring

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

Diagram



Pinout



Specifications

Supply Voltage
12 V DC to 30 V DC

Supply Current
< 220 mA maximum current at 12 V DC (exclusive of load)
< 110 mA maximum current at 30 V DC (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

Output Response Time:
Momentary models: 50 ms ON and OFF
Latching models: 150 ms ON and OFF

Construction
Housing and dome: Polycarbonate
Mounting nut: PBT

Environmental Rating
IP65

Storage
–40 °C to +70 °C (–40 °F to +158 °F)

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

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

Power-Up Delay
300 ms
Latching models start up in a non-activated state

Certifications

Indicator Lumens

Color	Typical Wavelength	Typical Intensity (lm)
Green	525 nm	45
Red	625 nm	26

Connections
Integral 5-pin M12 male quick-disconnect connector; 2 m (6.5 ft) unterminated 3-wire PVC-jacketed cable; or 150 mm (6 in) PVC-jacketed cable with a 5-pin M12 male quick-disconnect connector

Mounting
M30 × 1.5 threaded base; maximum torque 4.5 N·m (40 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.

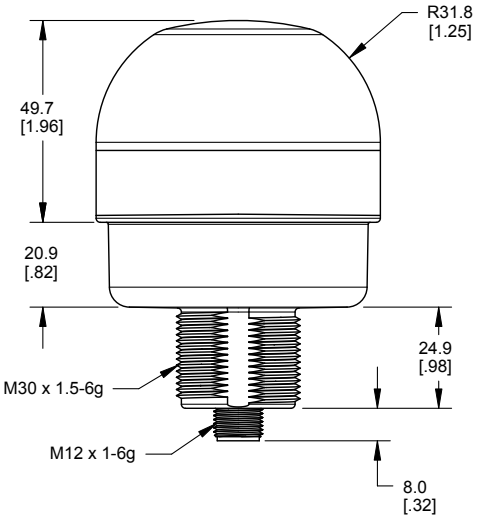
For additional product support, go to www.bannerengineering.com.

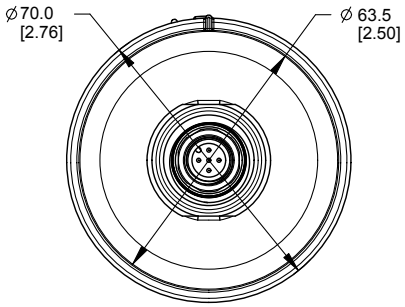
Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	2.0	30	0.5

Dimensions

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

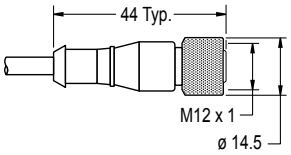
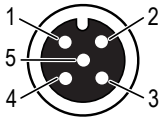
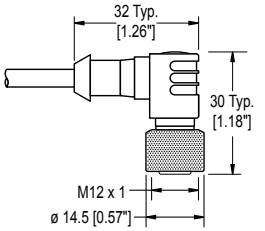
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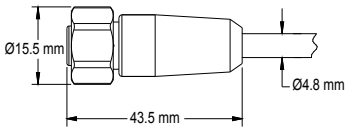
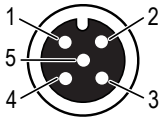




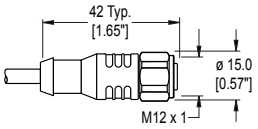
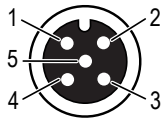
Accessories

Cordsets

5-Pin Single-Ended M12 Female Cordsets				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDC1-501.5	0.5 m (1.5 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDC1-503	0.9 m (2.9 ft)			
MQDC1-506	2 m (6.5 ft)			
MQDC1-515	5 m (16.4 ft)			
MQDC1-530	9 m (29.5 ft)			
MQDC1-560	18 m (59 ft)			
MQDC1-5100	31 m (101.7 ft)			
MQDC1-506RA	2 m (6.5 ft)	Right-Angle		
MQDC1-515RA	5 m (16.4 ft)			
MQDC1-530RA	9 m (29.5 ft)			
MQDC1-560RA	19 m (62.3 ft)			

5-Pin Single-Ended M12 Female Stainless Steel Washdown Cordsets				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDC-WDSS-0506	2 m (6.56 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDC-WDSS-0515	5 m (16.4 ft)			
MQDC-WDSS-0530	9 m (29.5 ft)			

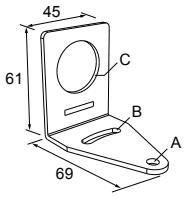
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5-Pin Single-Ended M12 Female Washdown, Shielded Cordsets				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDCWD-506	2 m (6.56 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDCWD-530	9 m (29.5 ft)			

Brackets

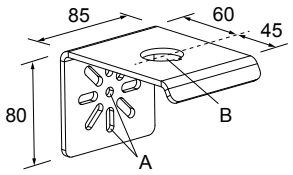
SMB30A
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-gauge stainless steel
- CAD Files: DXF, PDF, IGS, STP

Hole center spacing: A to B=40
Hole size: A=ø 6.3, B= 27.1 × 6.3, C=ø 30.5



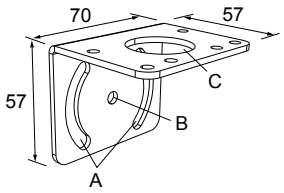
SSA-MBK-EEC1
- Single 30 mm hole
- 8 gauge steel, black finish (powder coat)
- Front surface for customer-applied labels
- CAD Files: DXF, PDF, IGS, STP

Hole size: A = ø 7 , B = ø 30



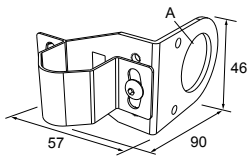
SMB30MM
- 12-gauge stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- CAD Files: DXF, PDF, IGS, STP

Hole center spacing: A=51, A to B=25.4
Hole size: A=42.6 × 7, B=ø 6.4, C=ø 30.1



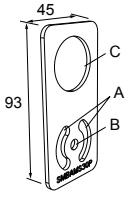
SMB30RAVK
- V-clamp, right-angle bracket and fasteners for mounting sensors to pipe or extrusion
- Clamp accommodates 28 mm dia. tubing or 1 in. square extrusions
- 30 mm hole for mounting sensors
- CAD Files: DXF, PDF, IGS, STP

Hole size: A=ø 30.5



SMBAMS30P
- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-gauge 300 series stainless steel
- CAD Files: DXF, PDF, IGS, STP

Hole center spacing: A=26.0, A to B=13.0
Hole size: A=26.8 × 7.0, B=ø 6.5, C=ø 31.0



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