EZ-LIGHT® K50L Series

Features

Compact Indicator with One, Two, or Three Colors and a Momentary Push Button Output

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, go to www.bannerengineering.com.



- Rugged, cost-effective, and easy-to-install multicolor indicator light with pushbutton
- Waterproof IP65 construction for washdown environments
- Excellent for panel mounting or as a stand-alone device
- Immune to EMI and RFI interference
- 12 V DC to 30 V DC operation
- Cabled and quick-disconnect models available
- Up to 3 independent colors in one unit

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 Key

Family	Color 1	Color 2	Color 3	Input	Output	Connector
K50L	G	R	Y	P	PB2	Q
	G = Green R = Red Y = Yellow B = Blue W = White T = Turquoise O = Orange V = Violet M = Magenta X = No color in this position			P = PNP	PB2 = Momentary push button	Blank = 2 m (6.5 ft) integral PVC-jacketed cable Q = Integral 4-pin, 5-pin, or 8-pin M12 male quick-disconnect connector QP = 150 mm (6 in) PVC-jacketed cable with a 4-pin, 5-pin, or 8-pin M12 male quick-disconnect connector

Example Models

Model Name	Number of LED Colors	LED Indicators	Connectors[1]
K50LGXXPPB2Q	1	Green	Integral 4-pin M12 male quick-disconnect connector
K50LRXXPPB2Q		Red	
K50LGRXPPB2Q	2	Green, Red	Integral 5-pin M12 male quick-disconnect connector
K50LGYXPPB2Q		Green, Yellow	
K50LGRYPPB2Q	3	Green, Red, Yellow	Integral 8-pin M12 male quick-disconnect connector

[1] Integral quick-disconnect connector models are listed.

- To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K50LGXXPPB2.
- To order the 150 mm (6 in) PVC cable model, replace the suffix "Q" with "QP" in the model number. For example, K50LGXXPPB2QP.
- Models with a quick-disconnect connector require a mating cordset.

Original Instructions
17-Jun-25

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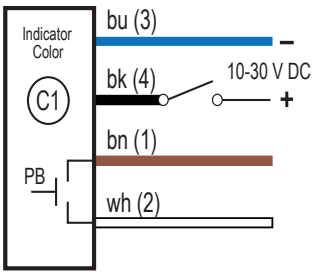
168310
p/n: 168310 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

Wiring

4-Pin Models

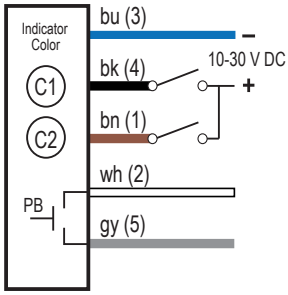
PNP



Key
1 = Brown
2 = White
3 = Blue
4 = Black
C1 = Color 1
PB = Push Button

5-Pin Models

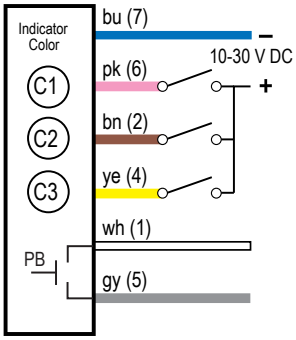
PNP



Key
1 = Brown
2 = White
3 = Blue
4 = Black
5 = Gray
C1 = Color 1
C2 = Color 2
PB = Push Button

8-Pin Models

PNP



Key
1 = White
2 = Brown
3 = Green (not used)
4 = Yellow
5 = Gray
6 = Pink
7 = Blue
8 = Red (not used)
C1 = Color 1
C2 = Color 2
C3 = Color 3
PB = Push Button

Installation

Install the K50 sensor at such a height and in a location that will be easy for the user and/or supervisor to see the indicator and comfortable for the user to press the push-button.

Specifications

Supply Voltage and Current
12 V DC to 30 V DC
65 mA at 12 V DC; 35 mA at 30 V DC maximum, current per LED color

Supply Protection Circuitry
Protected against transient voltages and reverse polarity

Switch Contact Rating
150 mA at 30 V DC

Contact Bounce
10 ms maximum

Environmental Rating
IP65
NEMA/UL Type 4X, 13

Construction
Base: polycarbonate
Translucent dome: polycarbonate
Push button: thermoplastic

Mounting Torque
2.25 Nm (20 in·ibf) maximum

Connections
Integral 4-pin, 5-pin, or 8-pin M12 male quick-disconnect connector; 2 m (6.5 ft) integral PVC-jacketed cable; or 150 mm (6 in) PVC-jacketed cable with a 4-pin, 5-pin, or 8-pin M12 male quick-disconnect connector, depending on model

Operating Temperature
–40 °C to +50 °C (–40 °F to +122 °F)

Max. Relative Humidity
90% at +50 °C maximum relative humidity (non-condensing)

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

Certifications

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

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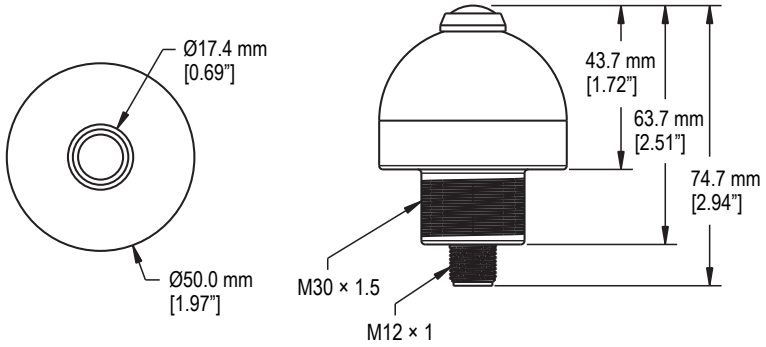
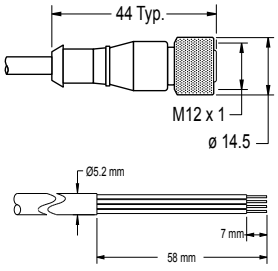
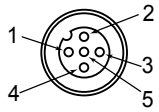
Dimensions

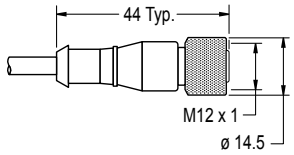
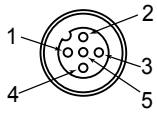
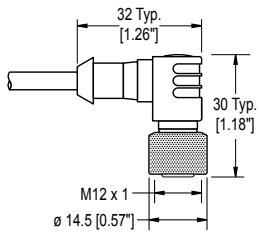
All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.



Accessories

Cordsets

4-Pin Single-Ended M12 Female Cordsets					
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**	
MQDC-403	1 m (3.28 ft)	Straight			1 = Brown 2 = White 3 = Blue 4 = Black 5 = Not used
MQDC-406	2 m (6.56 ft)				
MQDC-410	3 m (9.8 ft)				
MQDC-415	5 m (16.4 ft)				
MQDC-430	9 m (29.5 ft)				
MQDC-450	15 m (49.2 ft)				
MQDC-460	18.3 m (60 ft)				
MQDC-470	21 m (68.9 ft)				
MQDC-4100	30 m (98.43 ft)				

5-Pin Single-Ended M12 Female Cordsets				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDC1-501.5	0.5 m (1.5 ft)	Straight		
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		1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDC1-515RA	5 m (16.4 ft)			
MQDC1-530RA	9 m (29.5 ft)			
MQDC1-560RA	19 m (62.3 ft)			

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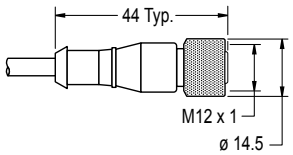
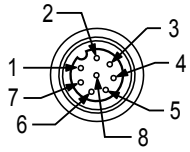
8-Pin Single-Ended M12 Female Shielded Cordsets					
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**	
MQDC-806	2 m (6.56 ft)	Straight			
MQDC-815	5 m (16.4 ft)			1 = White 2 = Brown 3 = Green 4 = Yellow	5 = Gray 6 = Pink 7 = Blue 8 = Shield
MQDC-830	9 m (29.53 ft)				

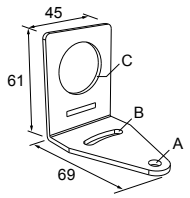
Brackets

All measurements are in mm.

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

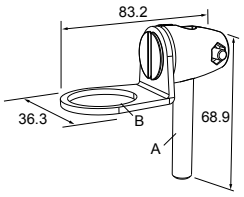
Hole center spacing: A to B=40
Hole size: A=ø 6.3, B= 27.1 × 6.3, C=ø 30.5



SMB30FA

- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-gauge 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric- and inch-size bolt available

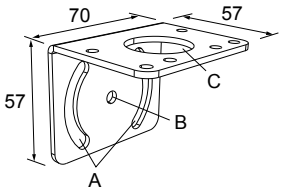
Bolt thread: SMB30FA, A= 3/8 - 16 × 2 in; SMB30FAM10, A= M10 - 1.5 × 50
Hole size: B= ø 30.1



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

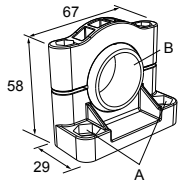
Hole center spacing: A = 51, A to B = 25.4
Hole size: A = 42.6 × 7, B = ø 6.4, C = ø 30.1



SMB30SC

- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included

Hole center spacing: A=ø 50.8
Hole size: A=ø 7.0, B=ø 30.0



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