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

© Banner Engineering Corp. All rights reserved.
www.bannerengineering.com

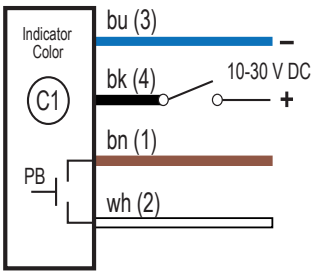
168310
p/n: 168310 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

Wiring

4-Pin Models

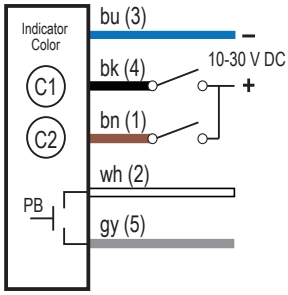
PNP



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

5-Pin Models

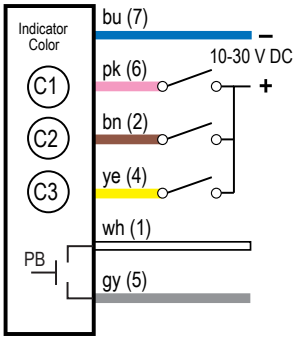
PNP



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)

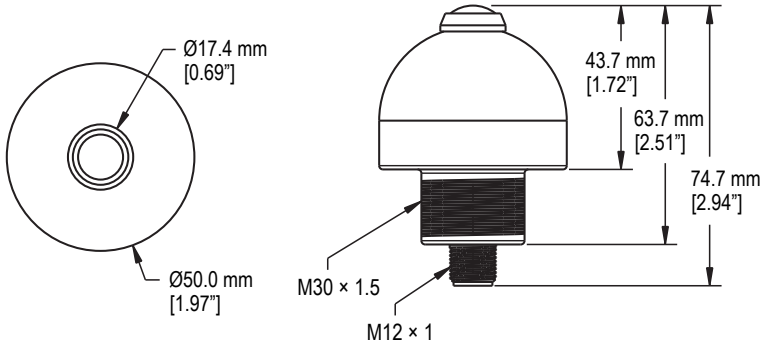
Certifications

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

© Banner Engineering Corp. All rights reserved.
www.bannerengineering.com

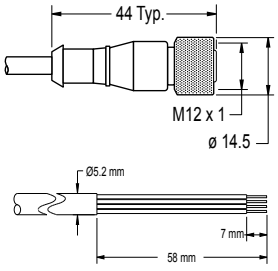
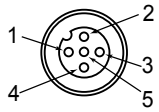
Dimensions

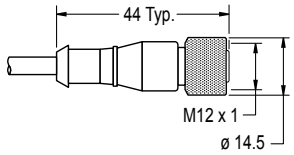
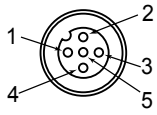
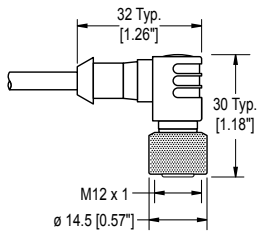
All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.



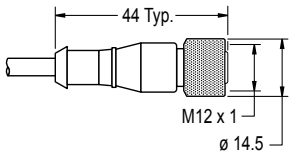
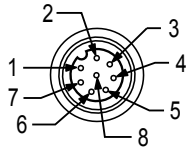
Accessories

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)			

© Banner Engineering Corp. All rights reserved.
www.bannerengineering.com

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)				

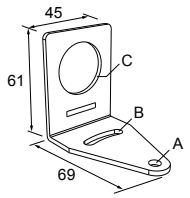
Brackets

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

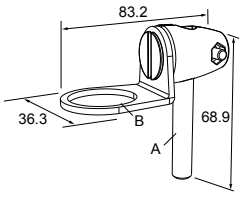
Hole center spacing: A to B=40
Hole size: A=ø 6.3, B= 27.1 × 6.3, C=ø 30.5



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

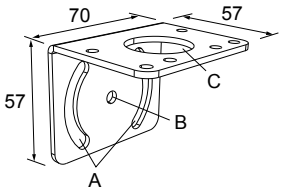
Bolt thread: SMB30FA, A= 3/8 - 16 × 2 in; SMB30FAM10, A= M10 - 1.5 × 50
Hole size: B= ø 30.1



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

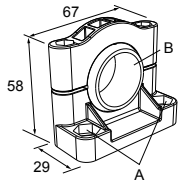
Hole center spacing: A = 51, A to B = 25.4
Hole size: A = 42.6 × 7, B = ø 6.4, C = ø 30.1



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



Banner Engineering Corp Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. **IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.**

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications when the product is identified as not intended for such purposes will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specifications and product information in English supersede that which is provided in any other language. For the most recent version of any documentation, refer to: www.bannerengineering.com.

For patent information, see www.bannerengineering.com/patents.

© Banner Engineering Corp. All rights reserved.
www.bannerengineering.com