EZ-LIGHT® K50L Series

BANNER ®
more sensors, more solutions
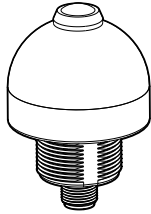
with Independent Push Button Contact
Compact Indicator with One, Two, or Three Colors and a Momentary Push Button Output
For the latest technical information about this product, including specifications, dimensions, and wiring, see *www.bannerengineering.com*.

- 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 to 30V dc operation
- Cabled and Quick Disconnect models available
- Up to 3 independent colors in one unit

Models

Family	Color 1	Color 2	Color 3	Input	Output	Connector[1]
K50L	G	R	Y	P	PB2	Q
MODEL KEY	G = Green R = Red Y = Yellow B = Blue W = White O = Orange T = Turquoise V = Violet M = Magenta X = No color in this position			P = PNP	PB2 = Momentary Push Button	Q = Euro QD Blank = 2 meter cable QP = Euro Pigtail QD

Example Model	# of LED Colors	LED Indicators	Connection
K50LGXXPPB2Q	1	Green	4-pin Euro integral QD Connector
K50LRXXPPB2Q		Red	
K50LGRXPPB2Q	2	Green, Red	5-pin Euro integral QD Connector
K50LGYXPPB2Q		Green, Yellow	
K50LGRYPPB2Q	3	Green, Red, Yellow	8-pin Euro integral QD Connector

⚠️ **WARNING: Not To Be Used for Personnel Protection**
Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

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[1] Integral QD models only are listed.

- For integral 2 m (6.5 ft) PVC cable, omit suffix **Q** from model number (example, **K50LGXXPPB2**).
- For 150 mm (6 in) PVC pigtail with QD, replace **Q** with QP in model number (example, **K50LGXXPPB2QP**).
- A model with a QD requires a mating cordset (see *Quick-Disconnect (QD) Cordsets* on page 4).

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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
Operating Voltage: 12 to 30V dc
Current: 65 mA at 12 Vdc; 35 mA at 30 Vdc max. current per LED color

Supply Protection Circuitry
Protected against transient voltages and reverse polarity

Switch Contact Rating
150 mA at 30V dc

Contact Bounce
10 ms max.

Environmental Rating
IEC IP65

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

Mounting Torque
2.25 Nm (20 in-lbf) max.

Connections
Integral Euro-style QD fitting, PVC-jacketed 2 m (6.5 ft) cable or 150 mm (6 in) PVC pigtail with QD, depending on model

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

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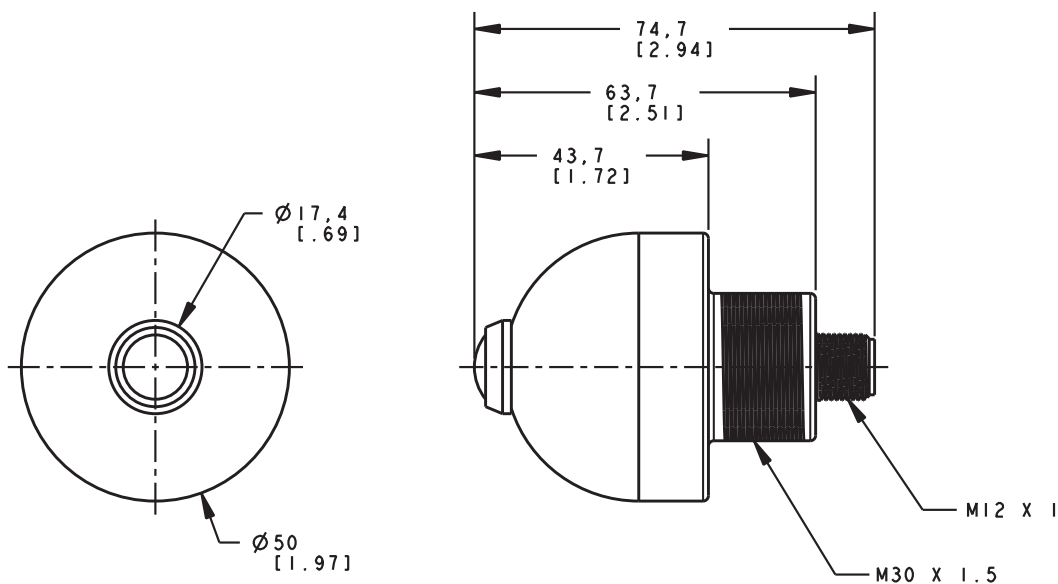90% at +50° C max. relative humidity (non-condensing)

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

Certifications

CE

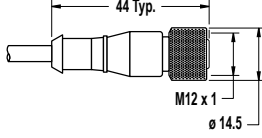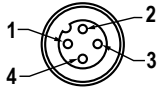## Dimensions

All measurements are in mm (in).
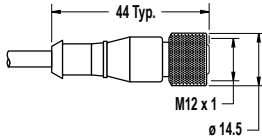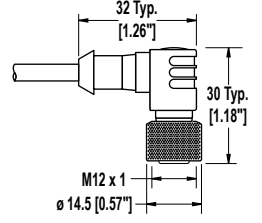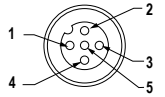
Hookups

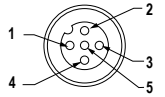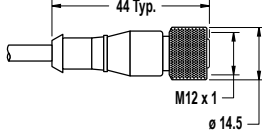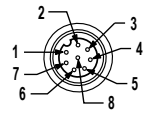| 4-Pin Models	
Sourcing (PNP) Input	**Key**
	1 = Brown 2 = White 3 = Blue 4 = Black C1 = Color 1 PB = Push Button

5-Pin Models	
Sourcing (PNP) Input	**Key**
	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray C1 = Color 1 C2 = Color 2 PB = Push Button

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

Accessories

Quick-Disconnect (QD) Cordsets

4-Pin Threaded M12/Euro-Style Cordsets				
Model	**Length**	**Style**	**Dimensions**	**Pinout**
MQDC-406	1.83 m (6 ft)	Straight	44 Typ. — M12 x 1 — ø 14.5	1 2 4 3
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)			1 = Brown 2 = White 3 = Blue 4 = Black

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	44 Typ. — M12 x 1 — ø 14.5	1 2 3 4 5
MQDC1-506	1.83 m (6 ft)			
MQDC1-515	4.57 m (15 ft)			
MQDC1-530	9.14 m (30 ft)			1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDC1-506RA	1.83 m (6 ft)	Right-Angle	32 Typ. [1.26"] 30 Typ. [1.18"] M12 x 1 ø 14.5 [0.57"]	
MQDC1-515RA	4.57 m (15 ft)			
MQDC1-530RA	9.14 m (30 ft)			

8-Pin Threaded M12/Euro-Style Cordsets with Shield				
Model	**Length**	**Style**	**Dimensions**	**Pinout**
MQDC-806	1.83 m (6 ft)	Straight	44 Typ. — M12 x 1 — ø 14.5	2 3 1 4 7 5 6 8
MQDC-815	4.57 m (15 ft)			1 = White 5 = Gray 2 = Brown 6 = Pink 3 = Green 7 = Blue 4 = Yellow 8 = Shield
MQDC-830	9.14 m (30 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
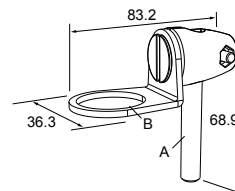- 12-ga. stainless steel
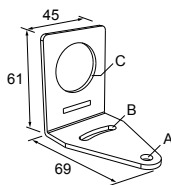
Hole center spacing: A to B=40
Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5

SMB30FA

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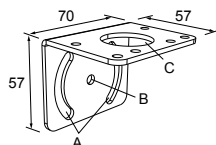- Metric and inch size bolt available

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

SMB30MM

- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
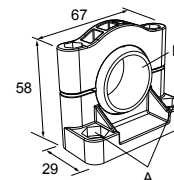- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor

Hole center spacing: A = 51, A to B = 25.4
Hole size: A = 42.6 x 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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