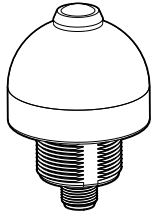


## Datasheet

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, see [www.bannerengineering.com](http://www.bannerengineering.com).



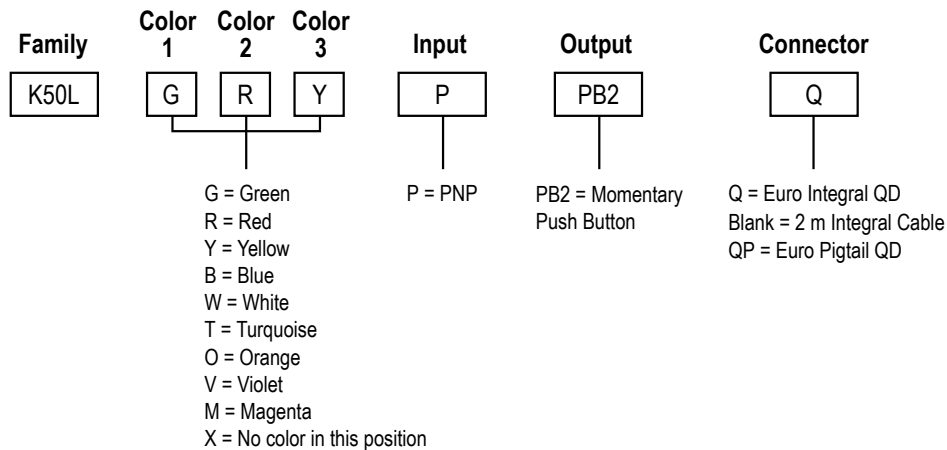
- Rugged, cost-effective and easy-to-install multicolor indicator light with pushbutton
- Waterproof IEC IP65 construction for washdown environments
- Excellent for panel mounting or as a stand-alone device
- Immune to EMI and RFI interference
- 12 V dc to 30 V dc operation
- Cabled and quick disconnect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



### WARNING: 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.

## Models



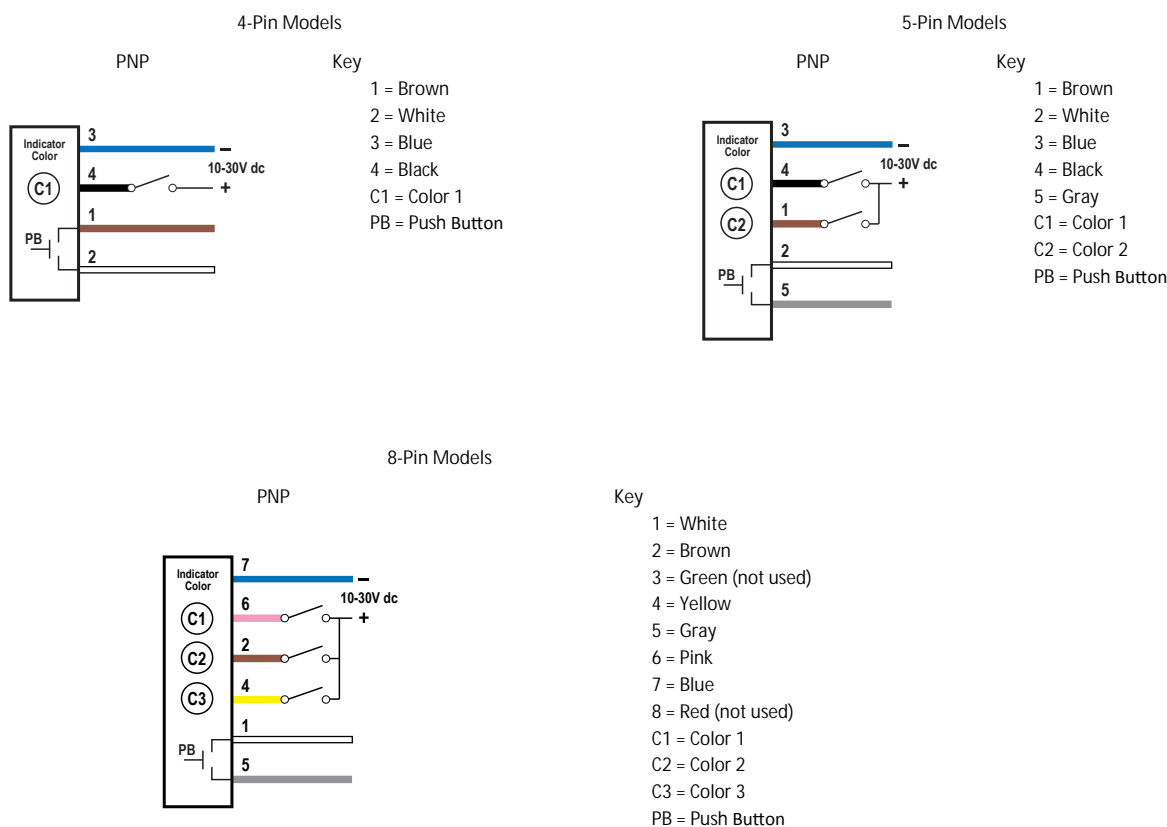
Example Model	# of LED Colors	LED Indicators	Connection <sup>1</sup>
K50LGXXPPB2Q	1	Green	4-pin M12/Euro-style integral QD Connector
K50LRXXPPB2Q		Red	
K50LGRXPPB2Q	2	Green, Red	5-pin M12/Euro-style QD Connector
K50LGYXPPB2Q		Green, Yellow	
K50LGRYPPB2Q	3	Green, Red, Yellow	8-pin M12/Euro-style QD Connector

<sup>1</sup> Integral quick disconnect 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 require a mating cordset.



## Wiring Diagrams



## 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

IEC 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 M12/Euro-style quick disconnect, 2 m (6.5 ft) PVC jacketed cable or  
150 mm (6 in) PVC cable with quick disconnect, 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

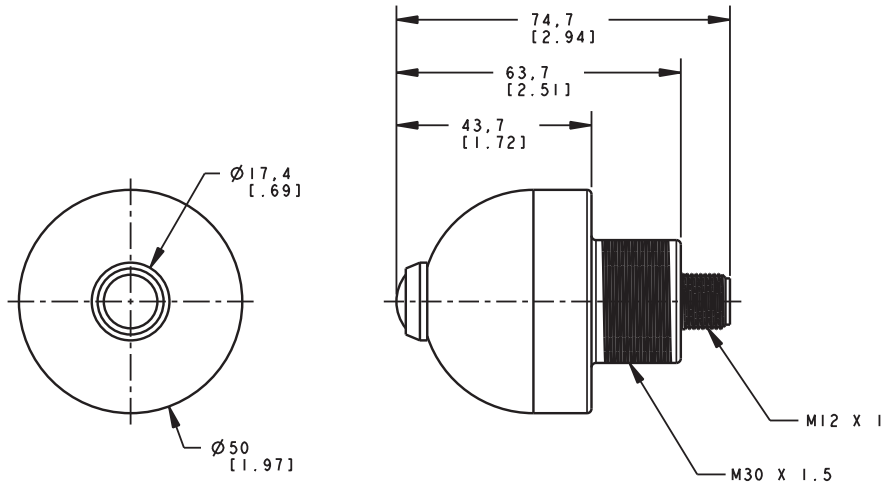
-40 °C to +70 °C (-40 °F to +158 °F)

### Certifications



## Dimensions

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

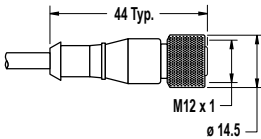
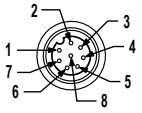


## Accessories

### Quick-Disconnect (QD) Cordsets

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)	Straight		<p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)			

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		<p>1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray</p>
MQDC1-506	1.83 m (6 ft)			
MQDC1-515	4.57 m (15 ft)			
MQDC1-530	9.14 m (30 ft)			
MQDC1-506RA	1.83 m (6 ft)	Right-Angle		
MQDC1-515RA	4.57 m (15 ft)			
MQDC1-530RA	9.14 m (30 ft)			

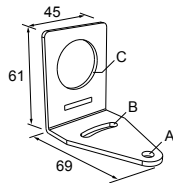
8-Pin Threaded M12/Euro-Style Cordsets with Shield				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-806	1.83 m (6 ft)	Straight		
MQDC-815	4.57 m (15 ft)			
MQDC-830	9.14 m (30 ft)			
				1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Shield

## 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

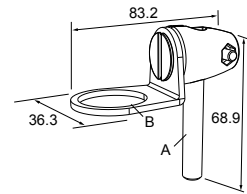


Hole center spacing: A to B=40

Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5

### SMB30FA

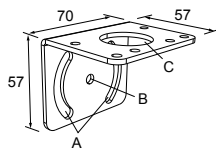
- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available



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

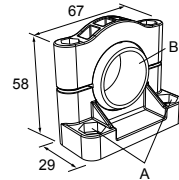


Hole center spacing: A = 51, A to B = 25.4

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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