

## 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](http://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

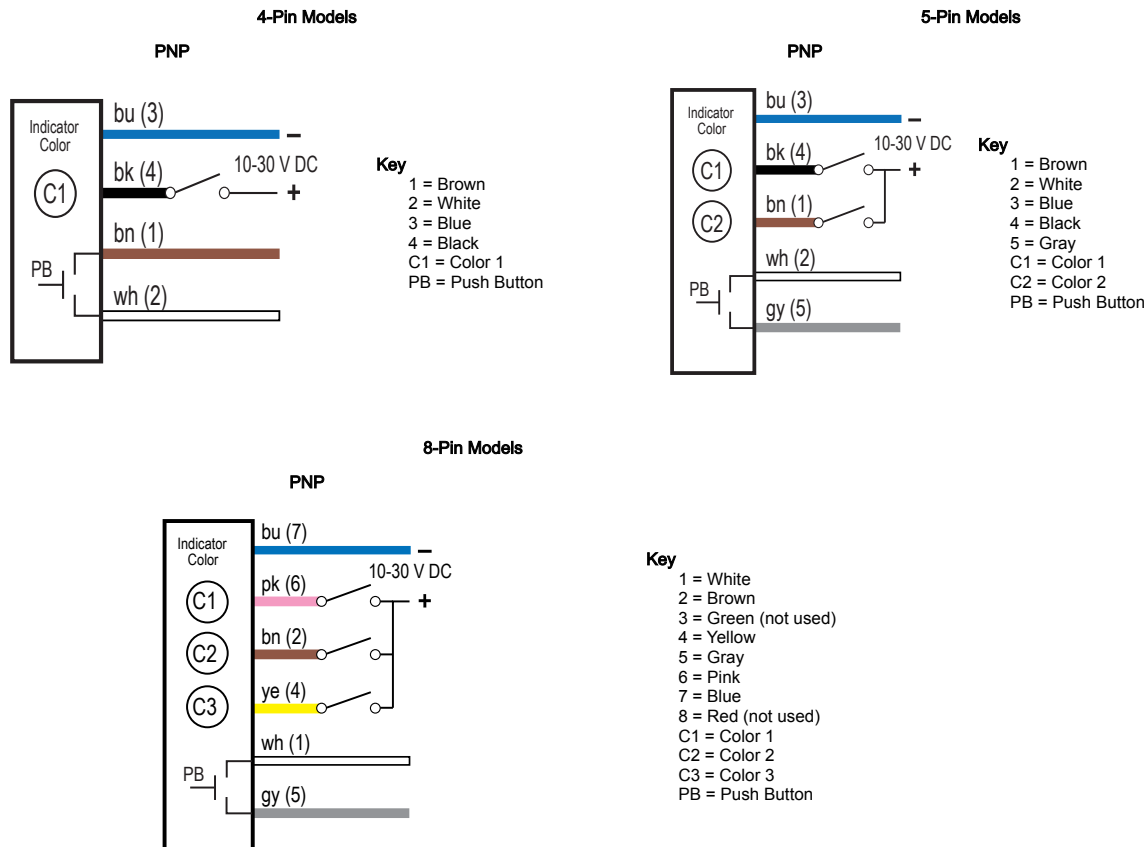
Model Name	Number of LED Colors	LED Indicators	Connectors <sup>(1)</sup>
K50LGXXPPB2Q	1	Green	Integral 4-pin M12 male quick-disconnect connector
K50LRXXPPB2Q		Red	
K50LGRXPPB2Q	2	Green, Red	Integral 5-pin M12 male quick-disconnect connector
K50LGXPPB2Q		Green, Yellow	
K50LGRYPPB2Q	3	Green, Red, Yellow	Integral 8-pin M12 male quick-disconnect connector

<sup>(1)</sup> 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.



## Wiring



## 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

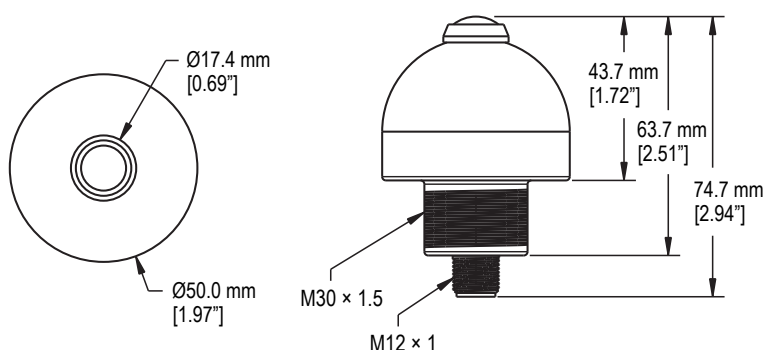


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1831 Diegem, BELGIUM



## Dimensions

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

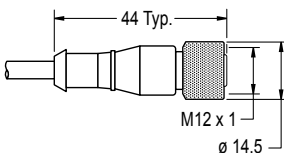
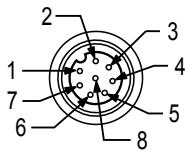


## Accessories

### 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			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			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)				

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	
MQDC-830	9 m (29.53 ft)			5 = Gray 6 = Pink 7 = Blue 8 = Shield	

## Brackets

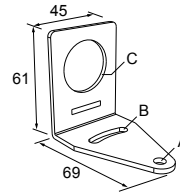
All measurements are in mm.

### SMB30A

- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-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

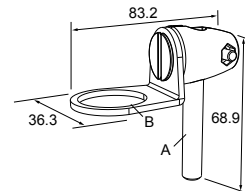


### SMB30FA

- 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

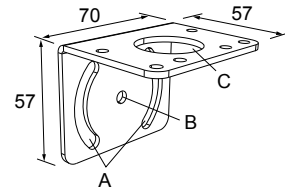


### SMB30MM

- 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

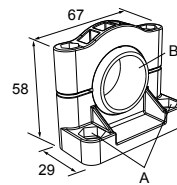


### SMB30SC

- 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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