

## EZ-LIGHT™ Indicators – 4-Color, Multi-Function

DC-operated indicators with 4 colors and multiple flashing frequencies



Contact Factory for more information.

### Features

- Rugged, cost-effective and easy-to-install indicators available in K50 or K80 housing style
- Displays 4 colors and multiple flashing frequencies: Steady ON, flashing or alternating
- Illuminated dome provides easy-to-see operator guidance and indication of equipment status
- Compact devices are completely self-contained — no controller needed
- Choose NPN or PNP input, depending on model
- Immune to ambient light, EMI and RFI interference
- 18 to 30V dc operation

### Models

Model	Construction	Connection*	LED Function**	Inputs
K50LGRYB4PQ	50 mm dome/ 30 mm mount polycarbonate	5-pin Euro QD	<b>4 Color:</b> Choose Green, Red, Yellow or Blue ON, flashing or alternative	PNP
K50LGRYB4NQ				NPN
K80LGRYB4PQ	50 mm dome/ Flat or DIN-mount polycarbonate			PNP
K80LGRYB4NQ				NPN

\* **K50L Models:** Integral QD models are listed. For 150 mm PVC pigtail with QD, replace **Q** with **QP** in model number (example, **K50LGRYB4PQP**). For 2 m (6.5') cable, omit suffix **Q** from model number (example, **K50LGRYB4P**). A model with a QD requires a mating cable (see page 4)

**K80L Models:** For terminal-wired models, omit suffix **Q** from model number (example, **K80LGRYB4P**).

\*\* Contact factory for other colors and color combinations.



#### **WARNING . . . Not To Be Used for Personnel Protection**

Never use these products as sensing devices for personnel protection. Doing so could lead to serious injury or death.

These sensors do NOT include the self-checking redundant circuitry necessary to allow their use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition. Consult your current Banner Safety Products catalog for safety products which meet OSHA, ANSI and IEC standards for personnel protection.

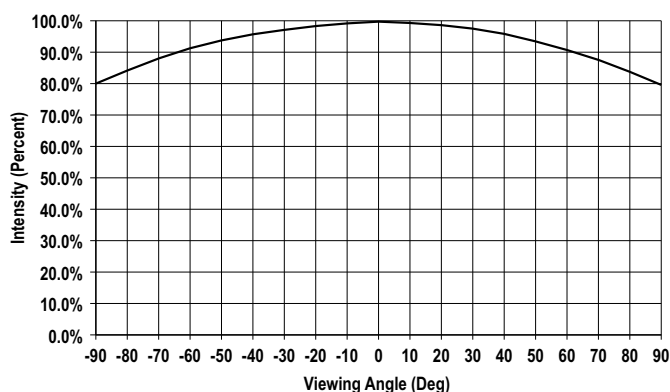


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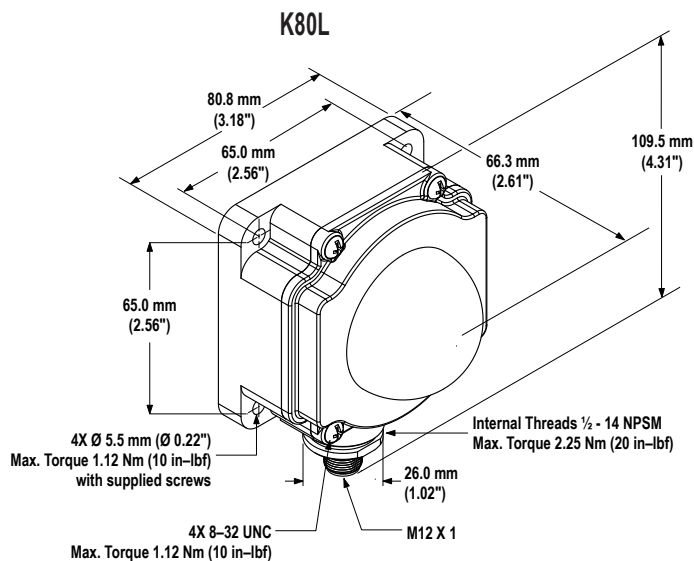
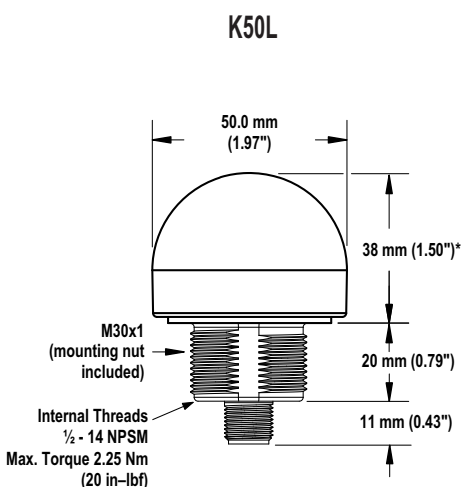
## Specifications

Supply Voltage and Current	18 to 30V dc @ 50 mA max.
Indicators	LEDs are independently selected: Green, Red, Yellow or Blue, ON steady or flashing, alternating or rotating
Input Response Time	Indicator ON: 250 ms (max.); Indicator OFF: 10 ms (max.)
Indicator Flash Rate	<b>1-Color:</b> 1 second flash rate (500 ms ON) <b>2 and 4-Color flash:</b> 500 ms per color
Environmental Rating	<b>K50L Models:</b> Fully encapsulated, IEC IP67 <b>K80L Models:</b> IEC IP67 (encapsulated electronics)
Connections	Integral 5-pin Euro-style QD, 150 mm PVC pigtail with QD, or 2 m (6.5') integral cable, depending on model <b>K80L Models:</b> Terminal-wired models for use with bulk cable available
Operating Conditions	-40° to +50° C (-40° to +122° F)
Certifications	CE

## Percent of Maximum Intensity vs Viewing Angle



## Dimensions



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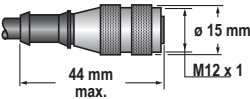
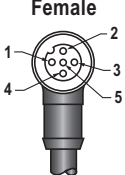
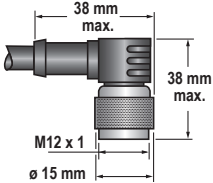
## Hookups

Function	PNP Hookup	NPN Hookup	Wiring Diagram
Green steady			<p><b>PNP Hookup</b></p> <p><b>NPN Hookup</b></p> <p>Indicator Color</p> <ul style="list-style-type: none"> <li>G (Green)</li> <li>R (Red)</li> <li>Y (Yellow)</li> <li>B (Blue)</li> </ul> <p>Wiring key: 1 = Brown; 2 = White; 3 = Blue; 4 = Black; 5 = Gray</p>
Green flashes			
Red steady			
Red flashes			
Yellow steady			
Yellow flashes			
Blue steady			
Blue flashes			
Green, Red flash cycle			
Red, Blue flash cycle			
Green, Yellow flash cycle			
Green, Blue flash cycle			
Red, Yellow flash cycle			
Yellow, Blue flash cycle			
Green, Red, Yellow, Blue flash cycle			

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## Accessories

### Quick-Disconnect (QD) Cables





Style	Model	Length	Dimensions	Pinout
5-Pin Euro Straight	MQDC1-501.5 MQDC1-515 MQDC1-530	0.5 m (1.6') 5 m (15') 9 m (30')		<b>Female</b>  1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
5-Pin Euro Right-Angle	MQDC1-506RA MQDC1-515RA MQDC1-530RA	2 m (6.5') 5 m (15') 9 m (30')		

## Mounting Brackets





### K80L

	<ul style="list-style-type: none"> <li>Black reinforced thermoplastic</li> <li>Bracket for mounting on 35 mm DIN rail</li> </ul>	SMBDX80DIN
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### K50L

	<ul style="list-style-type: none"> <li>12-ga. stainless steel right-angle mounting bracket with curved slot for versatile orientation</li> <li>Clearance for M6 (1/4") hardware</li> </ul>	SMB30A
	<ul style="list-style-type: none"> <li>30 mm 12-ga. stainless steel bracket with curved mounting slots for versatile orientation</li> <li>Clearance for M6 (1/4") hardware</li> <li>Articulation slots for 90°+ rotation</li> </ul>	SMB30MM
	<ul style="list-style-type: none"> <li>12-ga. 300 series stainless steel</li> <li>Right-angle SMBAMS series bracket with 30 mm hole for mounting sensors</li> <li>Articulation slots for 90°+ rotation</li> </ul>	SMBAMS30RA
	<ul style="list-style-type: none"> <li>30 mm swivel bracket</li> <li>Black reinforced thermoplastic polyester</li> <li>Includes stainless steel mounting and swivel locking hardware</li> </ul>	SMB30SC

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K50L (continued)		
	<ul style="list-style-type: none"> <li>• 12-ga. 300 series stainless steel</li> <li>• Right-angle bracket with 30 mm hole for mounting sensors</li> <li>• Attachment clamp allows 360° rotation</li> <li>• Threaded rod through-mounts to mounting surface</li> </ul>	<b>SMB30FA</b>
	<ul style="list-style-type: none"> <li>• 12-ga. 300 series stainless steel</li> <li>• Flat SMBAMS series bracket with 30 mm hole for mounting sensors</li> <li>• Articulation slots for 90°+ rotation</li> </ul>	<b>SMBAMS30P</b>
	<ul style="list-style-type: none"> <li>• V-clamp, straight bracket and fasteners for mounting sensors to pipe or extrusions</li> <li>• Clamp accommodates 28 mm dia. tubing or 1" square extrusions</li> <li>• 30 mm hole for mounting sensors</li> </ul>	<b>SMB30FVK</b>
	<ul style="list-style-type: none"> <li>• V-clamp, right-angle bracket and fasteners for mounting sensors to pipe or extrusions</li> <li>• Clamp accommodates 28 mm dia. tubing or 1" square extrusions</li> <li>• 30 mm hole for mounting sensors</li> </ul>	<b>SMB30RAVK</b>

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