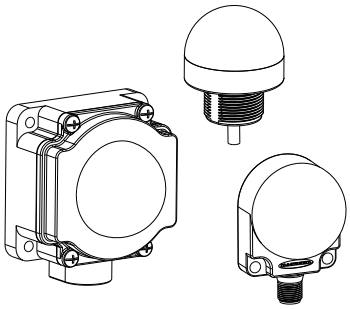
EZ-LIGHT™ Indicators — 4-Color, Multi-Function

DC-operated indicators with 4 colors and multiple flashing frequencies

For the latest technical information about this product, including specifications, dimensions, and wiring, see *www.BannerEngineering.com*



Features

- Rugged, cost-effective and easy-to-install indicators available in K50, K50 Flat Pack, 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

Contact Factory for more information.

Models

Model	Construction	Connection*	LED Function**	Inputs
K50LGRYB4PQ	50 mm dome/ 30 mm mount polycarbonate	5-pin Euro QD	**4 Color:** Choose Green, Red, Yellow or Blue ON, flashing or alternative	PNP
K50LGRYB4NQ				NPN
K50FLGRYB4PQ	50 mm polycarbonate dome/ polycarbonate base			PNP
K50FLGRYB4NQ				NPN
K80LGRYB4PQ	50 mm dome/ Flat or DIN-mount polycarbonate			PNP
K80LGRYB4NQ				NPN

* Integral QD models only are listed.

K50L and K50FL Models:

- 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 *5-Pin Euro-Style Cordsets* on 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 this product as a sensing device for personnel protection. Doing so could lead to serious injury or death. This product 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.

Specifications

Supply Voltage and Current

18 to 30V dc @ 50 mA max.

Indicators

Entire translucent diffuser or dome provides indication. 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

1-Color: 1-second flash rate (500 ms ON)

2- and 4-Color Flash: 500 ms per color

Connections

5-pin Euro-style integral QD (Q), 150 mm (6") PVC pigtail QD (QP), or 5-wire, 2 m (6.5') integral cable, depending on model.

K80L models: terminal-wired models available for use with bulk cable. Optional ½-14 NPSM cord grip model BWA-CG.5-1.

Construction

See Models table

Operating Conditions

−40° to +50° C (−40° to +122° F)

Environmental Rating

K50L and K50FL models: fully encapsulated, rated IEC IP67and IP69K, per DIN 40050-9. Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray.

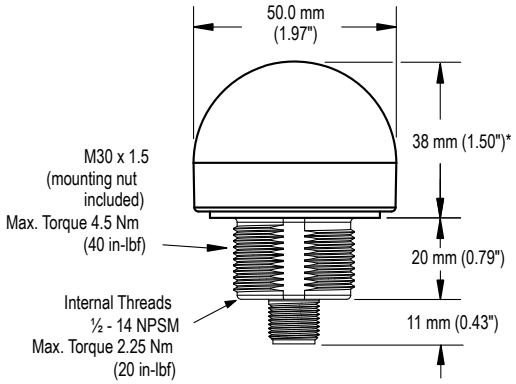
K80L models: IEC IP67 (encapsulated electronics)

Certifications

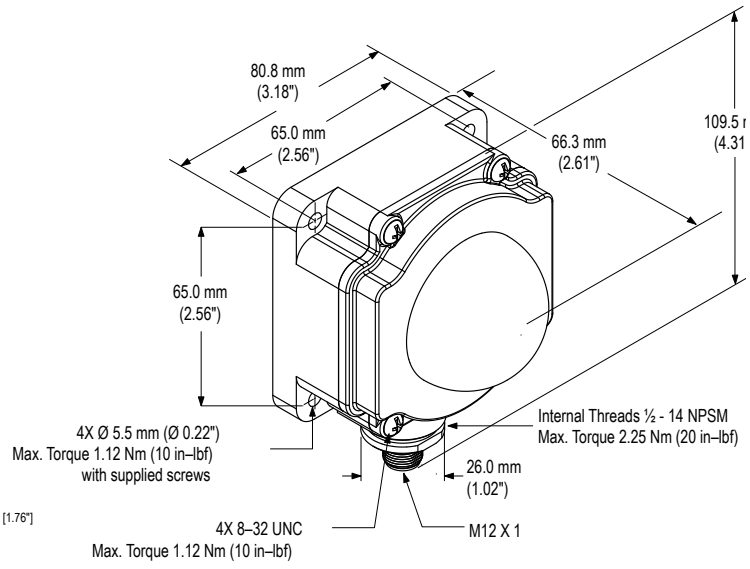
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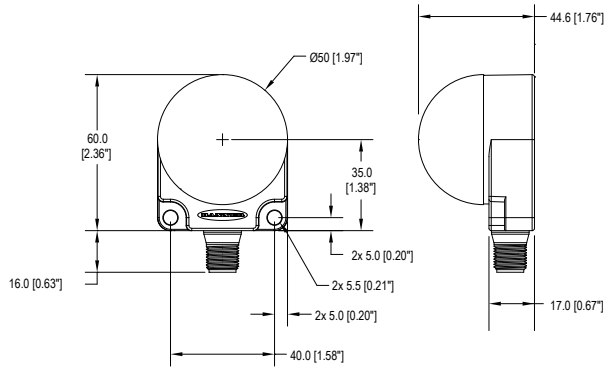
K50L



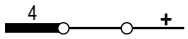
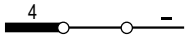
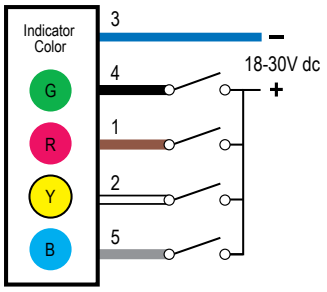
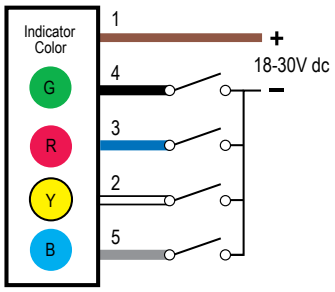
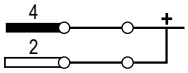
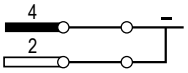
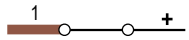
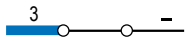
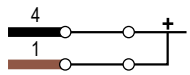
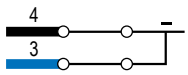
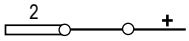
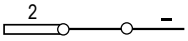
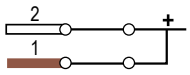
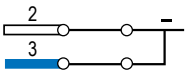
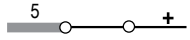
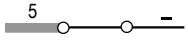
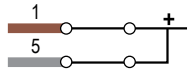
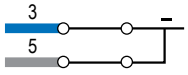
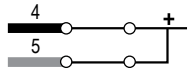
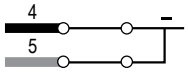
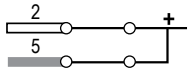
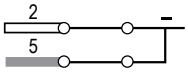
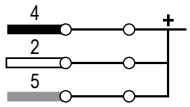
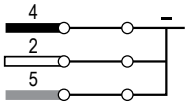
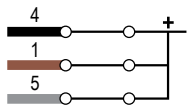
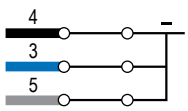
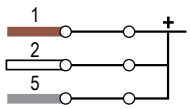
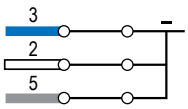
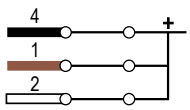
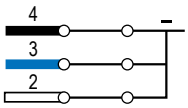
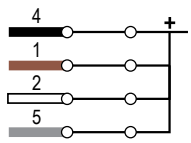
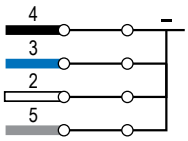
K80L



K50FL



Hookups

Function	PNP Hookup	NPN Hookup	Wiring Diagram
Green steady			**PNP Hookup**  **NPN Hookup**  Wiring Key: 1 = Brown; 2 = White; 3 = Blue; 4 = Black; 5 = Gray
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			

5-Pin Euro-Style Cordsets

5-Pin M12/Euro-Style Cordsets (straight connector)	5-Pin M12/Euro-Style Cordsets (right-angle connector)
MQDC1-506 , 2 m (6')	**MQDC1-506RA** , 2 m (6')
MQDC1-515 , 5 m (15')	**MQDC1-515RA** , 5 m (15')
MQDC1-530 , 9 m (30')	**MQDC1-530RA** , 9 m (30')

Mounting Brackets for K50L and K50FL Models

All measurements in mm

NOTE: K50FL models include a 48 mm (1.9") circular velcro mounting kit for easy mounting with no additional hardware

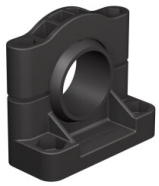
SMB30A

- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼") hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel



SMB30SC

- Swivel bracket with 30 mm mounting hole
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included



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



SMBAMS30RA

- Right-angle SMBAMS series bracket
- 30 mm mounting hole
- Articulation slots for 90+° rotation
- 12-ga. cold rolled stainless steel



SMB30MM

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



SMBAMS30P

- Flat SMBAMS series bracket
- 30 mm mounting hole
- Articulation slots for 90+° rotation
- 12-ga. 300 series stainless steel



SMB30FVK

- V-clamp, flat brakcet and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm dia. tubing or 1" square extrusions
- 30 mm hole for mounting sensors



SMB30RAVK

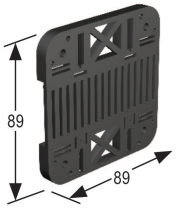
- V-clamp, right-angle bracket and fasteners for mounting sensors to pipe or extrusion
- Clamp accommodates 28 mm dia. tubing or 1" square extrusions
- 30 mm hole for mounting sensors



Mounting Bracket for K80L Models

SMBDX80D

- DIN-mount bracket for K80L models, mounts on 35 mm DIN rail
- Hardware included to mount to K80L housing
- Black reinforced thermoplastic



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.**

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