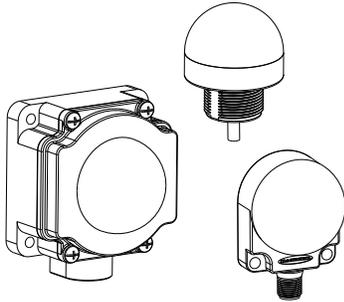# EZ-LIGHT™ Indicators — 4-Color, Multi-Function

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

CE (QPMA) 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.

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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

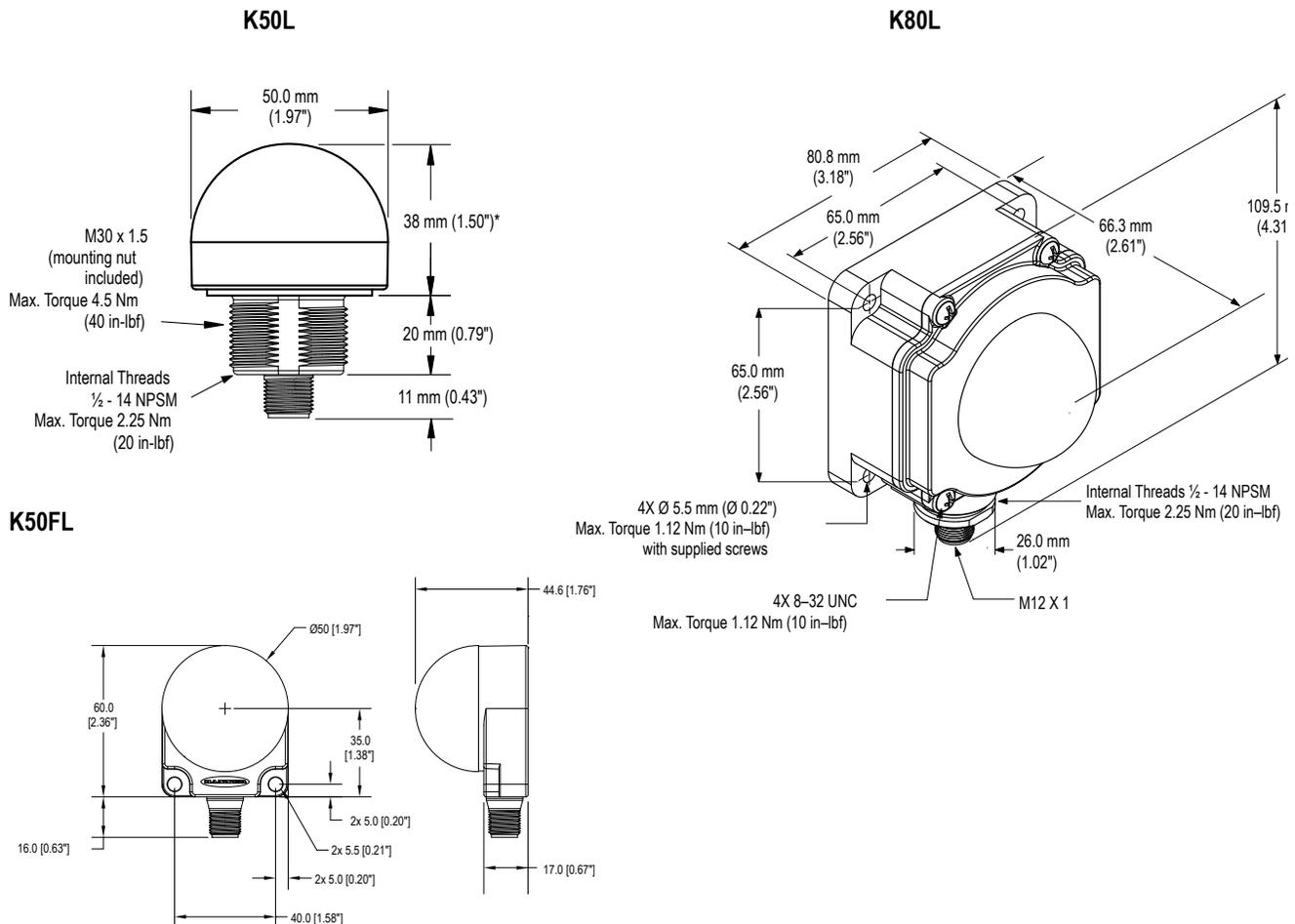K50L and K50FL models: fully encapsulated, rated IEC IP67and IP69K, per DIN 40050-9. Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray.

K80L models: IEC IP67 (encapsulated electronics)

Certifications

CE

Dimensions

K50L

50.0 mm (1.97")

38 mm (1.50")*

M30 x 1.5 (mounting nut included) Max. Torque 4.5 Nm (40 in-lbf)

Internal Threads ½ - 14 NPSM Max. Torque 2.25 Nm (20 in-lbf)

20 mm (0.79")

11 mm (0.43")

K80L

80.8 mm (3.18")

65.0 mm (2.56")

66.3 mm (2.61")

109.5 mm (4.31")

65.0 mm (2.56")

4X Ø 5.5 mm (Ø 0.22") Max. Torque 1.12 Nm (10 in–lbf) with supplied screws

4X 8–32 UNC Max. Torque 1.12 Nm (10 in–lbf)

M12 X 1

Internal Threads ½ - 14 NPSM Max. Torque 2.25 Nm (20 in–lbf)

26.0 mm (1.02")

K50FL

Ø50 [1.97"]

60.0 [2.36"]

35.0 [1.38"]

16.0 [0.63"]

2x 5.0 [0.20"]

2x 5.5 [0.21"]

2x 5.0 [0.20"]

40.0 [1.58"]

44.6 [1.76"]

17.0 [0.67"]

Hookups

Function	PNP Hookup	NPN Hookup	Wiring Diagram
Green steady	4 +	4 −	**PNP Hookup**
Green flashes	4 / 2 +	4 / 2 −	
Red steady	1 +	3 −	
Red flashes	4 / 1 +	4 / 3 −	
Yellow steady	2 +	2 −	
Yellow flashes	2 / 1 +	2 / 3 −	**NPN Hookup**
Blue steady	5 +	5 −	
Blue flashes	1 / 5 +	3 / 5 −	
Green, Red flash cycle	4 / 5 +	4 / 5 −	Wiring Key: 1 = Brown; 2 = White; 3 = Blue; 4 = Black; 5 = Gray
Red, Blue flash cycle	2 / 5 +	2 / 5 −	
Green, Yellow flash cycle	4 / 2 / 5 +	4 / 2 / 5 −	
Green, Blue flash cycle	4 / 1 / 5 +	4 / 3 / 5 −	
Red, Yellow flash cycle	1 / 2 / 5 +	3 / 2 / 5 −	
Yellow, Blue flash cycle	4 / 1 / 2 +	4 / 3 / 2 −	
Green, Red, Yellow, Blue flash cycle	4 / 1 / 2 / 5 +	4 / 3 / 2 / 5 −	

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
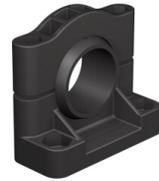
SMB30FA

- 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

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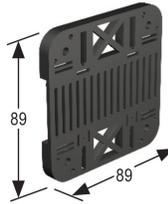
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