EZ-LIGHT™ Indicators — 5-Color, Multi-Function

Datasheet







Contact Factory for more information

- Rugged, cost-effective. and easy-to-install indicators available in K50, K50 Flat Pack, or K80 housing style
- Displays 5 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 30 V dc operation

Models	Construction	Connection	LED Function[1]	Inputs
K50LGRYBWPQ8	50 mm dome/30 mm mount polycarbonate	8-pin M12/Euro-style Quick Disconnect Fitting	5 Color: Choose Green, Red, Yellow, Blue or White ON, flashing or alternating	PNP
K50LGRYBWNQ8				NPN
K50FLGRYBWPQ8	50 mm polycarbonate dome/ polycarbonate base			PNP
K50FLGRYBWNQ8				NPN
K80LGRYBW PQ8	50 mm dome/Flat or DIN-mount polycarbonate			PNP
K80LGRYBWNQ8				NPN

K50L and K50FL Models: Integral quick disconnect fitting models only are listed.

- To order the 150 mm PVC pigtail with quick disconnect models, replace Q in the model number with QP (example, K50LGRYBWPQP8).
- To order the 2 m (6.5 ft) cable models, omit the suffix Q from the model number (example, K50LGRYBWP).
- Models with a quick disconnect require a mating cordset (see *Accessories*).

K80L Models: To order the terminal-wired models, omit the suffix Q from the model number (example, K80LGRYBWP).

Specifications

Supply Voltage and Current
18 to 30 V dc at 50 mA maximum

Indicators
LEDs are independently selected: Green, Red, Yellow, Blue or White, 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, 3 and 5-Color Flash: 500 ms per color

Environmental Rating
K50L and K50FL Models: Fully encapsulated, IEC IP67
K80L Models: IEC IP67 (encapsulated electronics)

Connections
Integral 8-pin M12/Euro-style quick disconnect fitting, or 150 mm PVC pigtail with quick disconnect fitting, or 2 m (6.5 ft) integral cable, depending on the model
K80L Models: Terminal-wired models for use with bulk cable available

Operating Conditions
−40 °C to +50 °C (−40 °F to +122 °F)

Certifications

[1] Contact factory for other colors and color combinations.

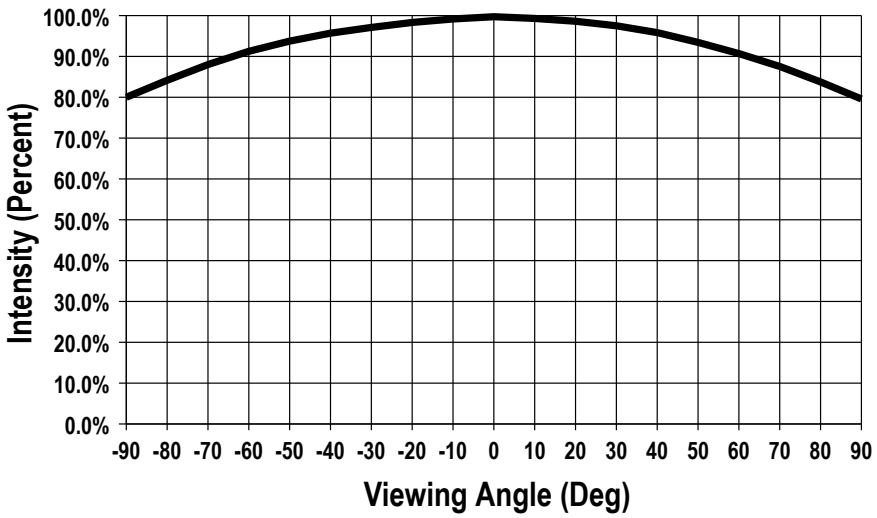
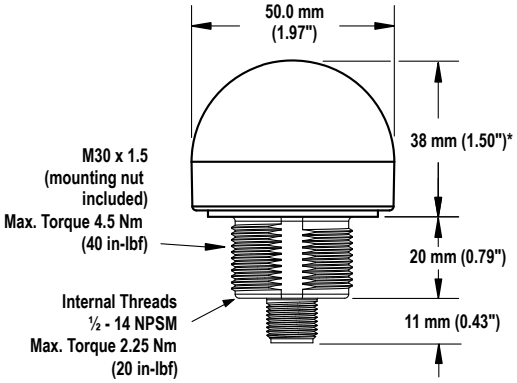


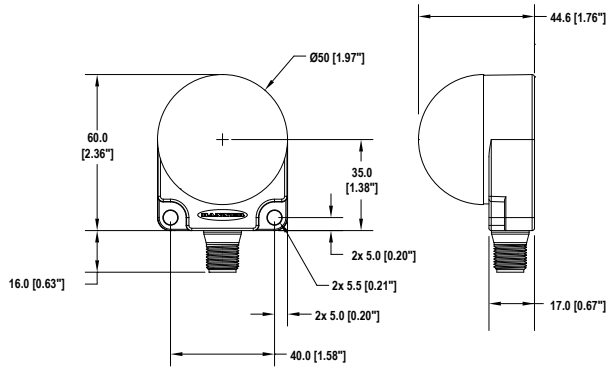
Figure 1. Maximum intensity vs. viewing angle

Dimensions

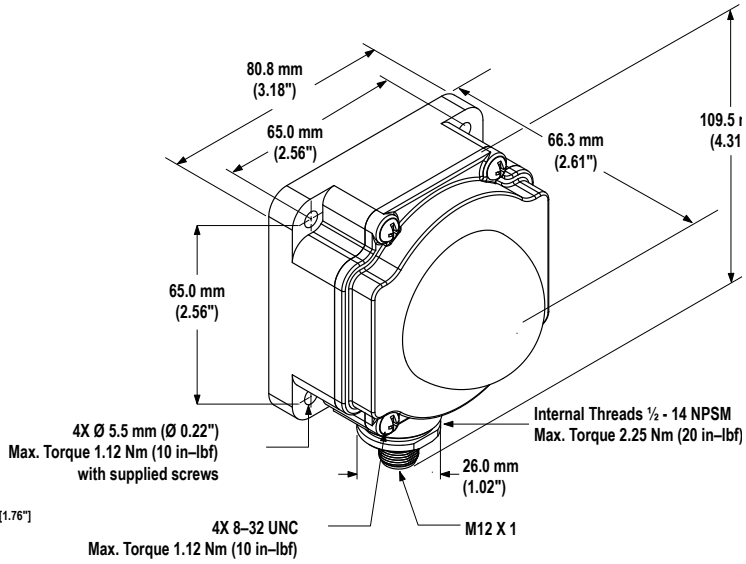
K50L



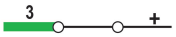
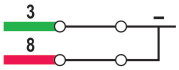
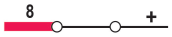
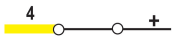
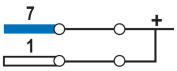
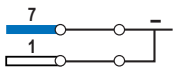
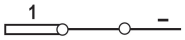
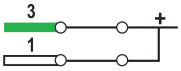
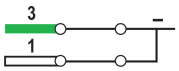
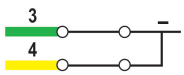
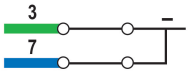
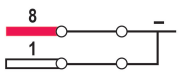
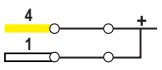
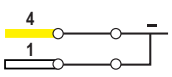
K50FL

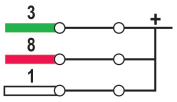
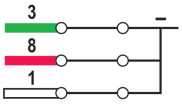
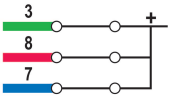
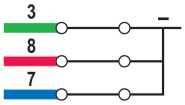
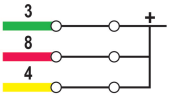
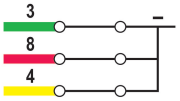
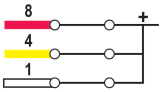
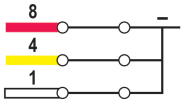
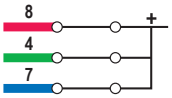
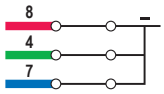
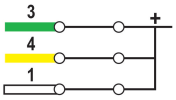
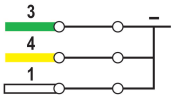
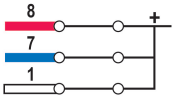
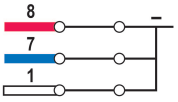
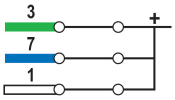
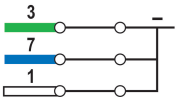
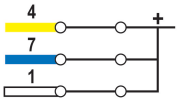
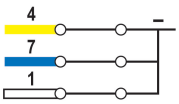
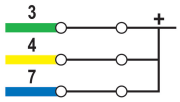
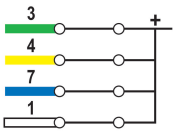
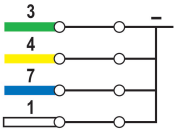
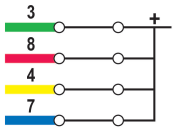
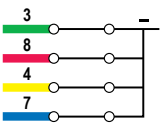


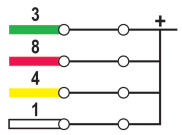
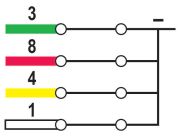
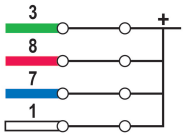
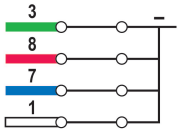
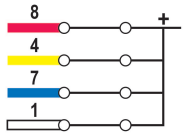
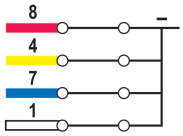
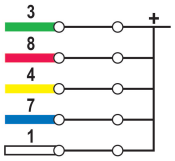
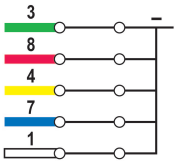
K80L

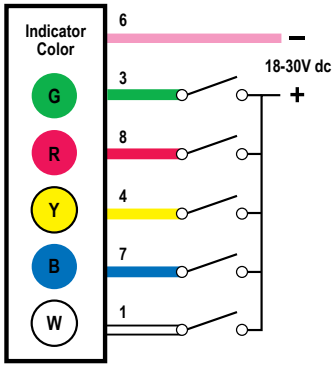
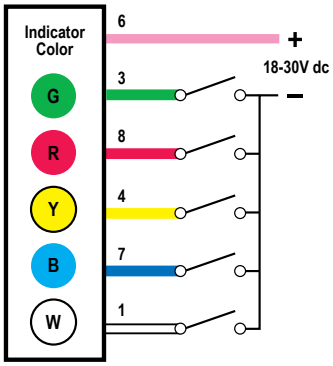


Wiring

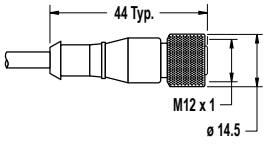
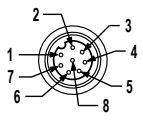
Function	PNP Wiring	NPN Wiring
Green on		
Green flashing		
Red on		
Red flashing		
Yellow on		
Yellow flashing		
Blue on		
Blue flashing		
White on		
White flashing		
Green, Red flash cycle		
Green, Yellow flash cycle		
Green, Blue flash cycle		
Green, White flash cycle		
Red, Yellow flash cycle		

Function	PNP Wiring	NPN Wiring
Red, Blue flash cycle		
Red, White flash cycle		
Yellow, Blue flash cycle		
Yellow, White flash cycle		
Blue, White flash cycle		
Green, Red, Yellow flash cycle		
Green, Red, Blue flash cycle		
Green, Red, White flash cycle		
Green, Yellow, Blue flash cycle		
Green, Yellow, White flash cycle		
Green, Blue, White flash cycle		
Red, Yellow, Blue flash cycle		

Function	PNP Wiring	NPN Wiring
Red, Yellow, White flash cycle		
Red, Blue, White flash cycle		
Yellow, Blue, White flash cycle		
Green, Red, Yellow, Blue, White flash cycle		

PNP	NPN	Wiring Key
		1 = White 2 = Brown (not used) 3 = Green 4 = Yellow 5 = Gray (not used) 6 = Pink 7 = Blue 8 = Red

Accessories

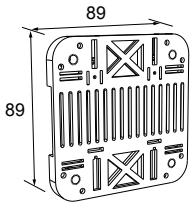
8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC2S-806	1.83 m (6 ft)	Straight		
MQDC2S-815	4.57 m (15 ft)			
MQDC2S-830	9.14 m (30 ft)			

8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC2S-850	15.2 m (50 ft)			1 = White 2 = Brown 3 = Green 4 = Yellow	5 = Gray 6 = Pink 7 = Blue 8 = Red

Brackets for K80L Models

SMBDX80DIN

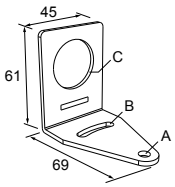
Black reinforced thermoplastic
Bracket for mounting on a 35 mm DIN rail



Brackets for K50L Models [2]

SMB30A

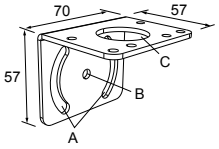
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel



Hole center spacing: A to B=40
Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5

SMB30MM

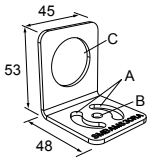
- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor



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

SMBAMS30RA

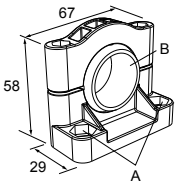
- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. (2.6 mm) cold-rolled steel



Hole center spacing: A=26.0, A to B=13.0
Hole size: A=26.8 x 7.0, B=ø 6.5, C=ø 31.0

SMB30SC

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



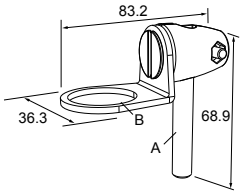
Hole center spacing: A=ø 50.8
Hole size: A=ø 7.0, B=ø 30.0

[2] K50FL models include a 48 mm (1.9 in) circular velcro mounting kit for easy mounting with no additional hardware

Brackets for K50L Models [2]

SMB30FA

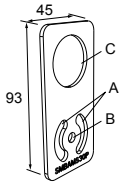
- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available



Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50
Hole size: B= ø 30.1

SMBAMS30P

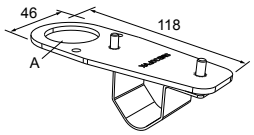
- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. 300 series stainless steel



Hole center spacing: A=26.0, A to B=13.0
Hole size: A=26.8 x 7.0, B=ø 6.5, C=ø 31.0

SMB30FVK

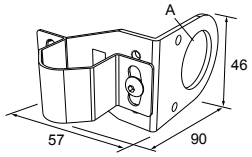
- V-clamp, flat bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm dia. tubing or 1 in. square extrusions
- 30 mm hole for mounting sensors



Hole size: A= ø 31

SMB30RAVK

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



Hole size: A = ø 30.5

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[2] K50FL models include a 48 mm (1.9 in) circular velcro mounting kit for easy mounting with no additional hardware