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 V dc 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			PNP
K80LGRYBWNQ8	polycarbonate			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

Rated IEC IP67. K80L has encapsulated electronics only; other models fully encapsulated.

K50L and K50FL quick-disconnect models meet IP69K per DIN 40050-9. Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray.

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





Original Document 131413 Rev. C

Contact factory for other colors and color combinations.

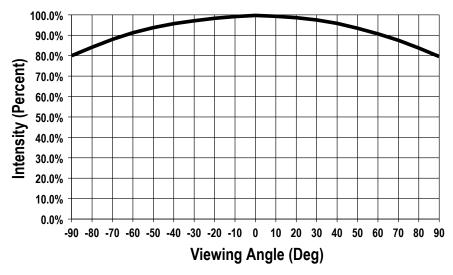
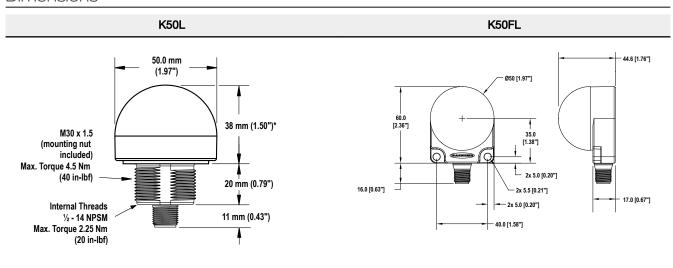
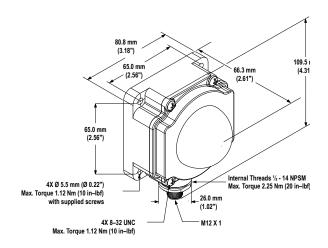


Figure 1. Maximum intensity vs. viewing angle

Dimensions



K80L

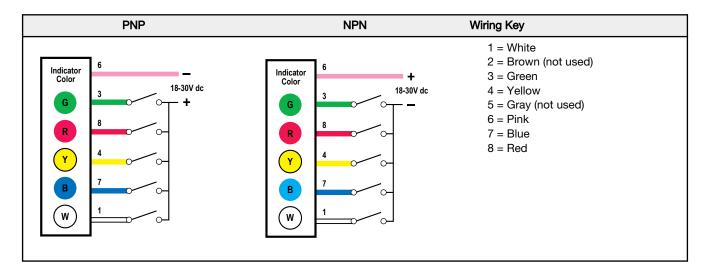


Wiring

Function	PNP Wiring	NPN Wiring
Green on	3 +	3
Green flashing	3 + 3	3
Red on	8 +	8
Red flashing	8 4	8 -
Yellow on	4	4
Yellow flashing	7	7
Blue on		7
Blue flashing	7 +	1
White on	1 +	
White flashing	3 +	3 -
Green, Red flash cycle	3 +	3
Green, Yellow flash cycle	3 +	7
Green, Blue flash cycle	8 +	7
Green, White flash cycle	8 +	<u>8</u> <u>-</u> <u>1</u>
Red, Yellow flash cycle	1 +	1
Red, Blue flash cycle	3 + 8	3 - 3

Function	PNP Wiring	NPN Wiring
Red, White flash cycle	3 8 7	3 -
Yellow, Blue flash cycle	3 4	3 8 4
Yellow, White flash cycle	4	4
Blue, White flash cycle	4 7	8 4 7
Green, Red, Yellow flash cycle	3 +	3
Green, Red, Blue flash cycle	7	7
Green, Red, White flash cycle	3 7	7
Green, Yellow, Blue flash cycle	7	7
Green, Yellow, White flash cycle	3 4 7	3 - 4
Green, Blue, White flash cycle	3 4 7	3 4 7
Red, Yellow, Blue flash cycle	3 8 4 7	3 8 4 7
Red, Yellow, White flash cycle	3 8 4	3 8 4

Function	PNP Wiring	NPN Wiring
Red, Blue, White flash cycle	3 8 7	3 8 7
Yellow, Blue, White flash cycle	8 4 7	8 4 7
Green, Red, Yellow, Blue, White flash cycle	3 8 4 7	3 8 4 7



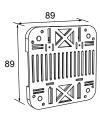
Accessories

8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC2S-806	1.83 m (6 ft)			2—\	
MQDC2S-815	4.57 m (15 ft)			3	
MQDC2S-830	9.14 m (30 ft)	Straight	44 Typ.	7 5 5	
MQDC2S-850	15.2 m (50 ft)		M12 x 1	1 = White 5 = Gray 2 = Brown 6 = Pink 3 = Green 7 = Blue 4 = Yellow 8 = Red	

Brackets for K80L Models

SMBDX80DIN

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

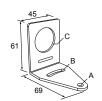


Brackets for K50L Models ²

SMB30A

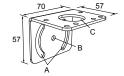
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

Hole center spacing: A to B=40 Hole size: A= \emptyset 6.3, B= 27.1 x 6.3, C= \emptyset 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:** $A = 42.6 \times 7$, $B = \emptyset 6.4$, $C = \emptyset 30.1$

SMBAMS30RA

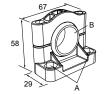
- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. (2.6 mm) cold-rolled steel

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

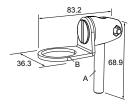


Hole center spacing: A=Ø 50.8 Hole size: A=Ø 7.0, B=Ø 30.0

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 - 16×2 in; SMB30FAM10, A= M10 - 1.5×50 **Hole size:** B= \varnothing 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

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

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

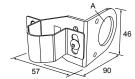
Hole size: A= Ø 31



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: $A = \emptyset 30.5$



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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



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K50LGRYBWPQ8 K50FLGRYBWN K50FLGRYBWNQ8 K50FLGRYBWP K50FLGRYBWPQ8 K50LGRYBWNQ8 K50LGRYBWPQP8 K80LGRYBWPQP8 K80LGRYBWPQP8 K80LGRYBWPQP8