

# 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 <sup>1</sup>                                                     | 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

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



<sup>†</sup> Contact factory for other colors and color combinations.



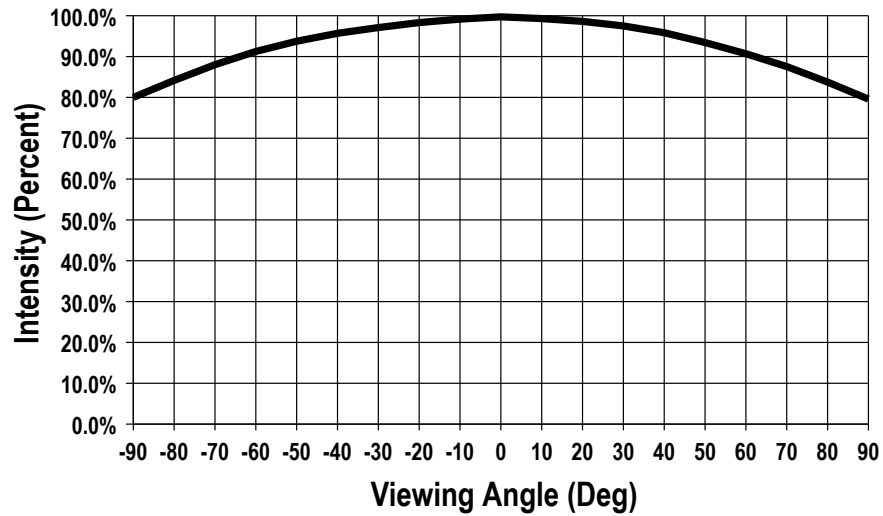
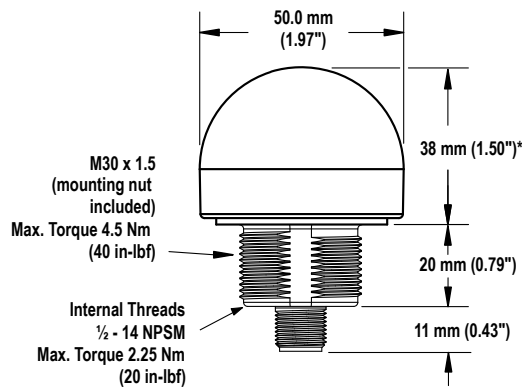


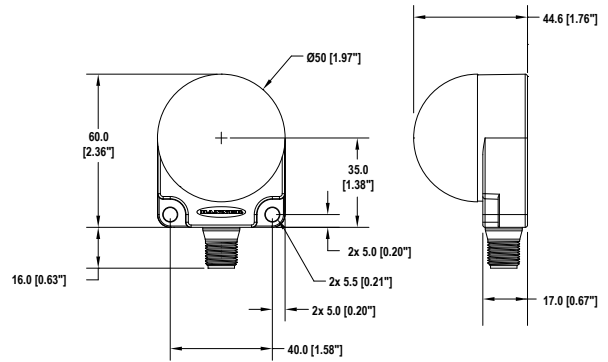
Figure 1. Maximum intensity vs. viewing angle

## Dimensions

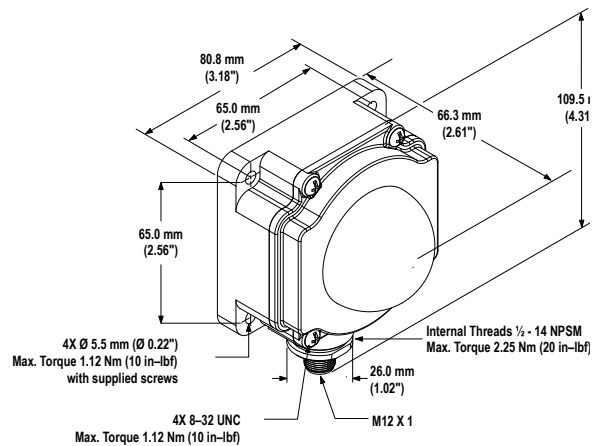
### K50L



### 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   |            |            |
| Red, Blue flash cycle     |            |            |

| Function                         | PNP Wiring | NPN Wiring |
|----------------------------------|------------|------------|
| 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    |            |            |
| Red, Yellow, White flash cycle   |            |            |

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

| PNP | NPN | Wiring Key                                                                                                                                  |
|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------|
|     |     | <p>1 = White<br/> 2 = Brown (not used)<br/> 3 = Green<br/> 4 = Yellow<br/> 5 = Gray (not used)<br/> 6 = Pink<br/> 7 = Blue<br/> 8 = Red</p> |

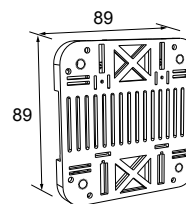
## Accessories

| 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) |          |            |                 |
| MQDC2S-850                                              | 15.2 m (50 ft) |          |            |                 |

## Brackets for K80L Models

### SMBDX80DIN

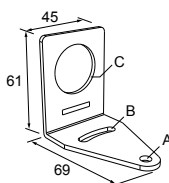
- Black reinforced thermoplastic
- Bracket for mounting on a 35 mm DIN rail



## Brackets for K50L Models <sup>2</sup>

### SMB30A

- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

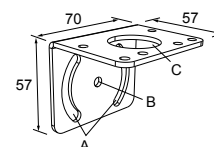


**Hole center spacing:** A to B=40

**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 (1/4 in) hardware
- Mounting hole for 30 mm sensor

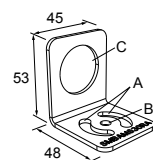


**Hole center spacing:** A = 51, A to B = 25.4

**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

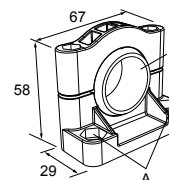


**Hole center spacing:** A=26.0, A to B=13.0

**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

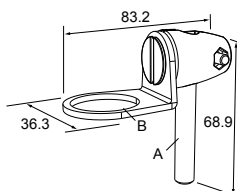


**Hole center spacing:** A=ø 50.8

**Hole size:** A=ø 7.0, B=ø 30.0

### 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

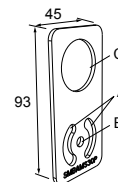


**Bolt thread:** SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50

**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



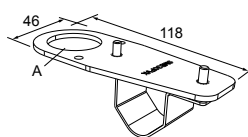
**Hole center spacing:** A=26.0, A to B=13.0

**Hole size:** A=26.8 x 7.0, B=ø 6.5, C=ø 31.0

<sup>2</sup> K50FL models include a 48 mm (1.9 in) circular velcro mounting kit for easy mounting with no additional hardware

**Brackets for K50L Models <sup>2</sup>****SMB30FVK**

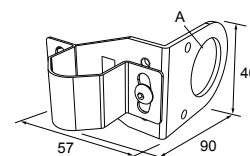
- V-clamp, flat bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm dia. tubing or 1 in. square extrusions
- 30 mm hole for mounting sensors



**Hole size:** A =  $\varnothing$  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 =  $\varnothing$  30.5

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<sup>2</sup> K50FL models include a 48 mm (1.9 in) circular velcro mounting kit for easy mounting with no additional hardware