

Features



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

| Models | Construction | Connection | LED Function ⁽¹⁾ | Inputs |
|---------------|---|--|---|--------|
| K50LGRYBWPQ8 | 50 mm dome / 30 mm mount polycarbonate | Integral 8-pin M12 male quick-disconnect connector | 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 |
| K80LGRYBWPQ8 | 50 mm dome / Flat or DIN-mount polycarbonate | | | PNP |
| K80LGRYBWNQ8 | | | | NPN |

K50L and K50FL Models: Integral quick-disconnect connector models are listed.

- To order the 150 mm (6 in) PVC-jacketed cable with quick-disconnect connector 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 connector require a mating cordset (see *Accessories*).

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

Wiring

| Function | PNP Wiring | NPN Wiring |
|----------------|------------|------------|
| Green on | | |
| Green flashing | | |
| Red on | | |
| Red flashing | | |

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⁽¹⁾ Contact factory for other colors and color combinations.



Continued from page 1

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

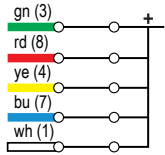
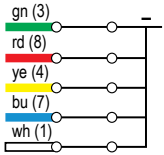
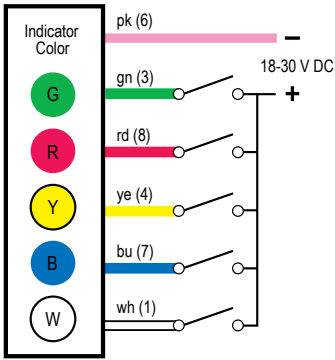
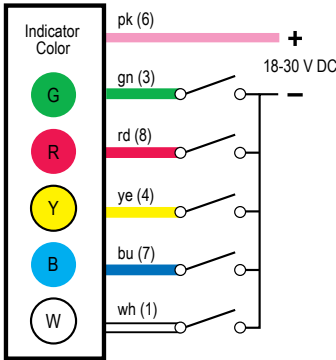
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| Function | PNP Wiring | NPN Wiring |
|----------------------------------|------------|------------|
| Blue, White flash cycle | | |
| Green, Red, Yellow flash cycle | | |
| Green, Red, Blue flash cycle | | |
| Green, Red, White flash cycle | | |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

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

Specifications

Supply Voltage and Current

18 V DC 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 IP67. K80L has encapsulated electronics only; other models fully encapsulated.

K50L and K50FL quick-disconnect connector models meet IP69K per ISO 20653.

Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray.

Connections

Integral 8-pin M12 male quick-disconnect connector, 150 mm (6 in) PVC-jacketed cable with an 8-pin M12 male quick-disconnect connector, or 2 m (6.5 ft) integral PVC-jacketed cable, depending on the model

K80L Models: Terminal-wired models for use with bulk cable available

Operating Conditions

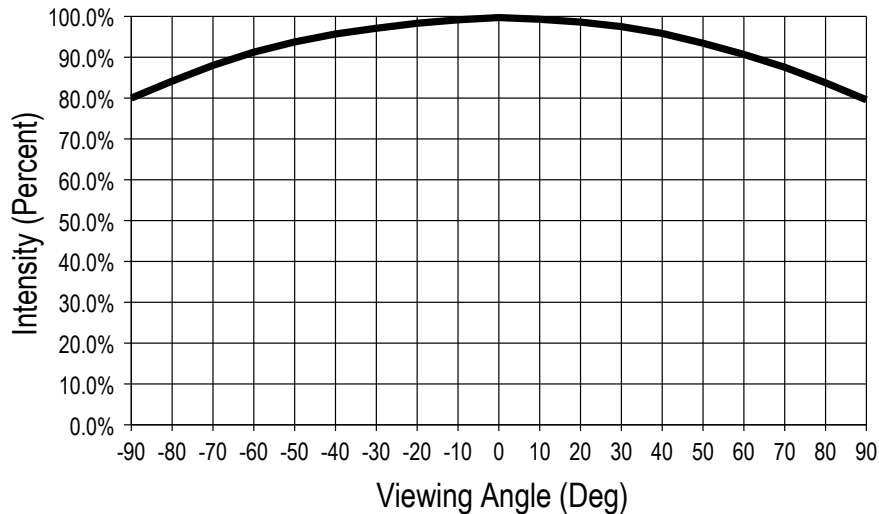
-40 °C to +50 °C (-40 °F to +122 °F)

Certifications

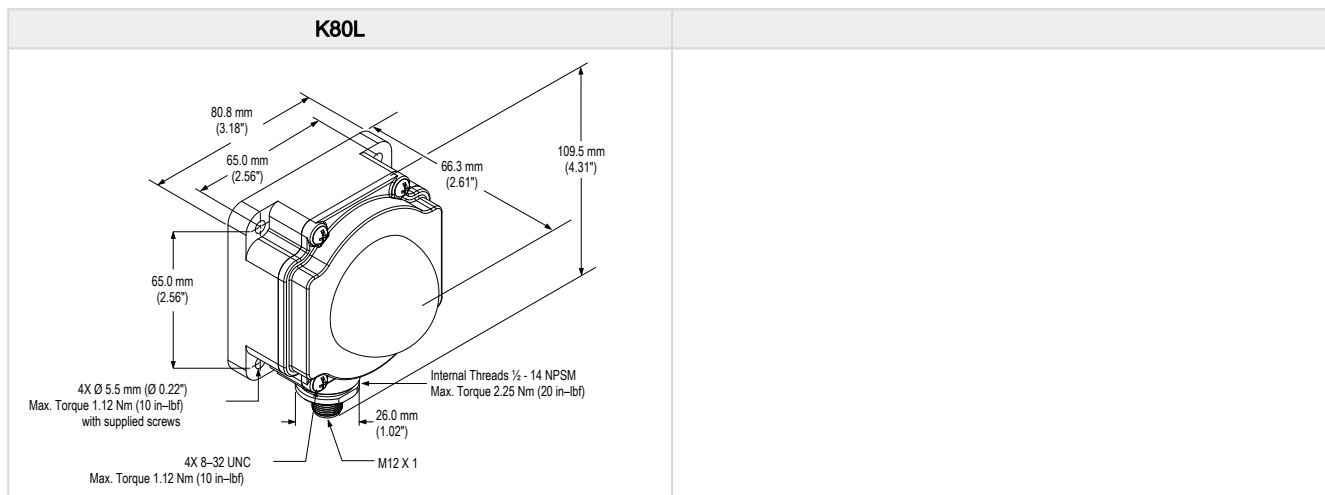
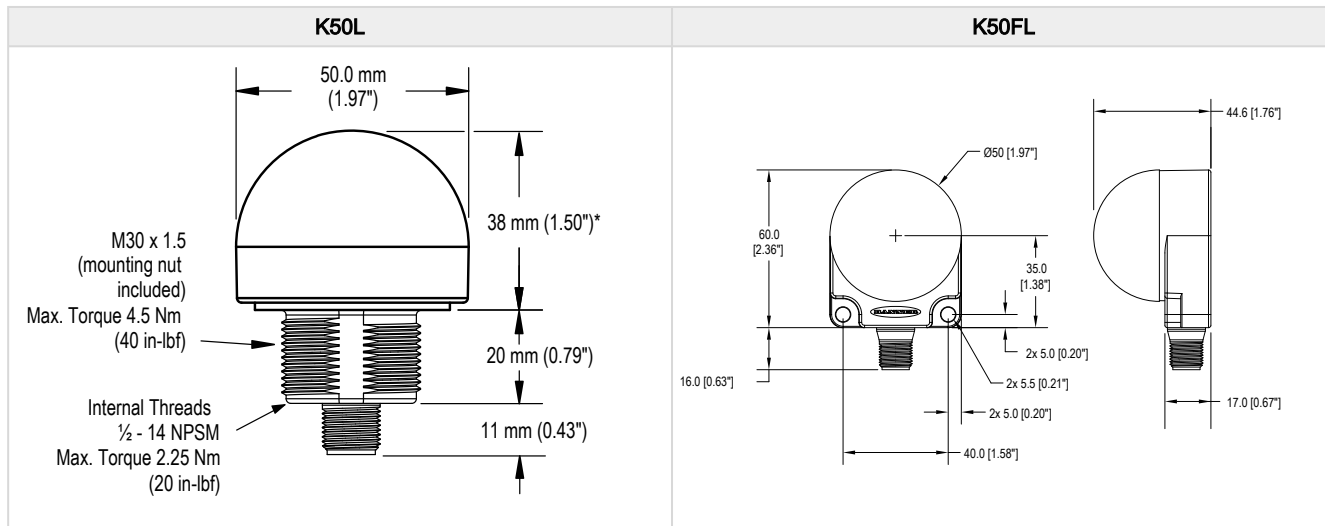


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Maximum intensity vs. viewing angle



Dimensions



Accessories

Cordsets

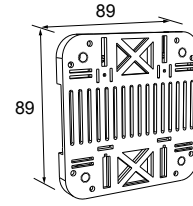
| 8-Pin Single-Ended M12 Female Open-Shielded Cordsets | | | | |
|--|--------------------|-------------|------------|--|
| Model | Length | Style | Dimensions | Pinout (Female) |
| MQDC2S-806 | 2.04 m (6.7 ft) | Straight | | <p>1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red</p> |
| MQDC2S-815 | 5.04 m (16.54 ft) | | | |
| MQDC2S-830 | 10.04 m (32.95 ft) | | | |
| MQDC2S-850 | 16 m (52.49 ft) | Right-Angle | | |
| MQDC2S-806RA | 2 m (6.56 ft) | | | |
| MQDC2S-815RA | 5 m (16.4 ft) | | | |
| MQDC2S-830RA | 10 m (32.81 ft) | | | |
| MQDC2S-850RA | 16 m (52.49 ft) | | | |

Brackets

Brackets for K80L models

SMBDX80DIN

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



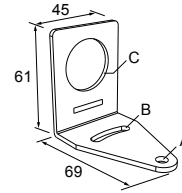
Brackets for K50L and K50FL models

SMB30A

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

Hole center spacing: A to B=40

Hole size: A=ø 6.3, B= 27.1 × 6.3, C=ø 30.5

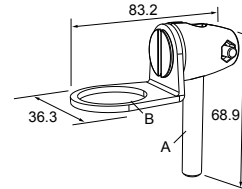


SMB30FA

- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-gauge 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

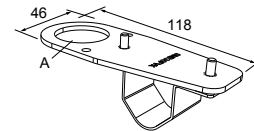
Hole size: B= ø 30.1



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

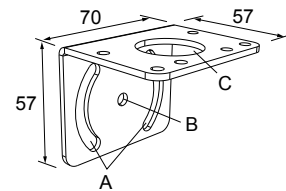


SMB30MM

- 12-gauge 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

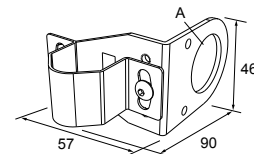
Hole size: A = 42.6 × 7, B = ø 6.4, C = ø 30.1



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

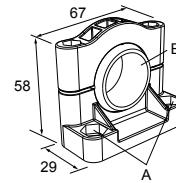


SMB30SC

- 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=∅ 50.8

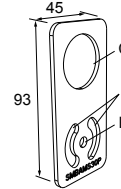
Hole size: A=∅ 7.0, B=∅ 30.0

**SMBAMS30P**

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

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

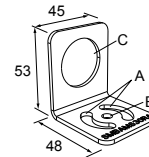
Hole size: A=26.8 × 7.0, B=∅ 6.5, C=∅ 31.0

**SMBAMS30RA**

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

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

Hole size: A=26.8 × 7.0, B=∅ 6.5, C=∅ 31.0



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

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