

Features



- 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

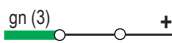
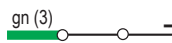


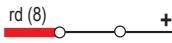
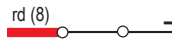
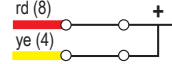
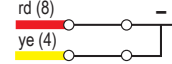
Models	Construction	Connection	LED Function ⁽¹⁾	Inputs
K50LGRYBWPQ8	50 mm dome / 30 mm mount polycarbonate	Integral 8-pin M12 male quick-disconnect connector	5 Color: Choose Green, Red, Yellow, Blue or White ON, flashing or alternating	PNP
K50LGRYBWNQ8				NPN
K50FLGRYBWPQ8	50 mm polycarbonate dome / 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.



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

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

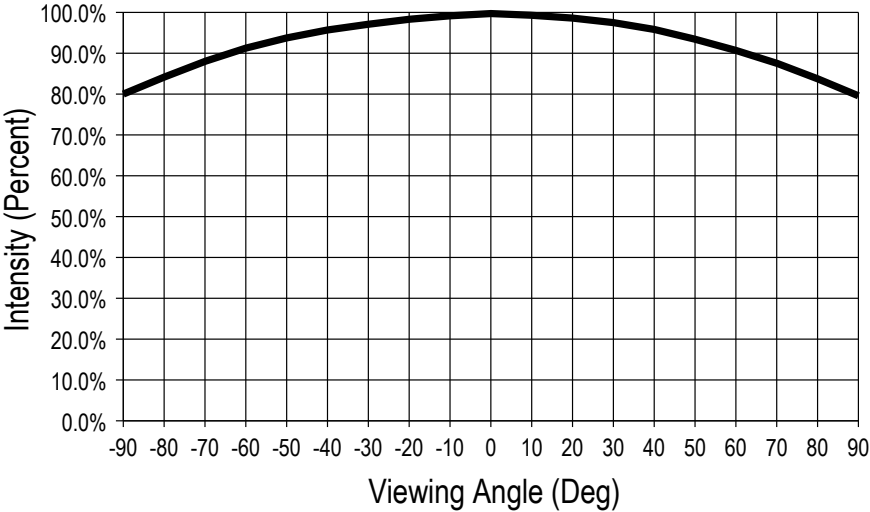
-40 °C to +50 °C (-40 °F to +122 °F)

Certifications

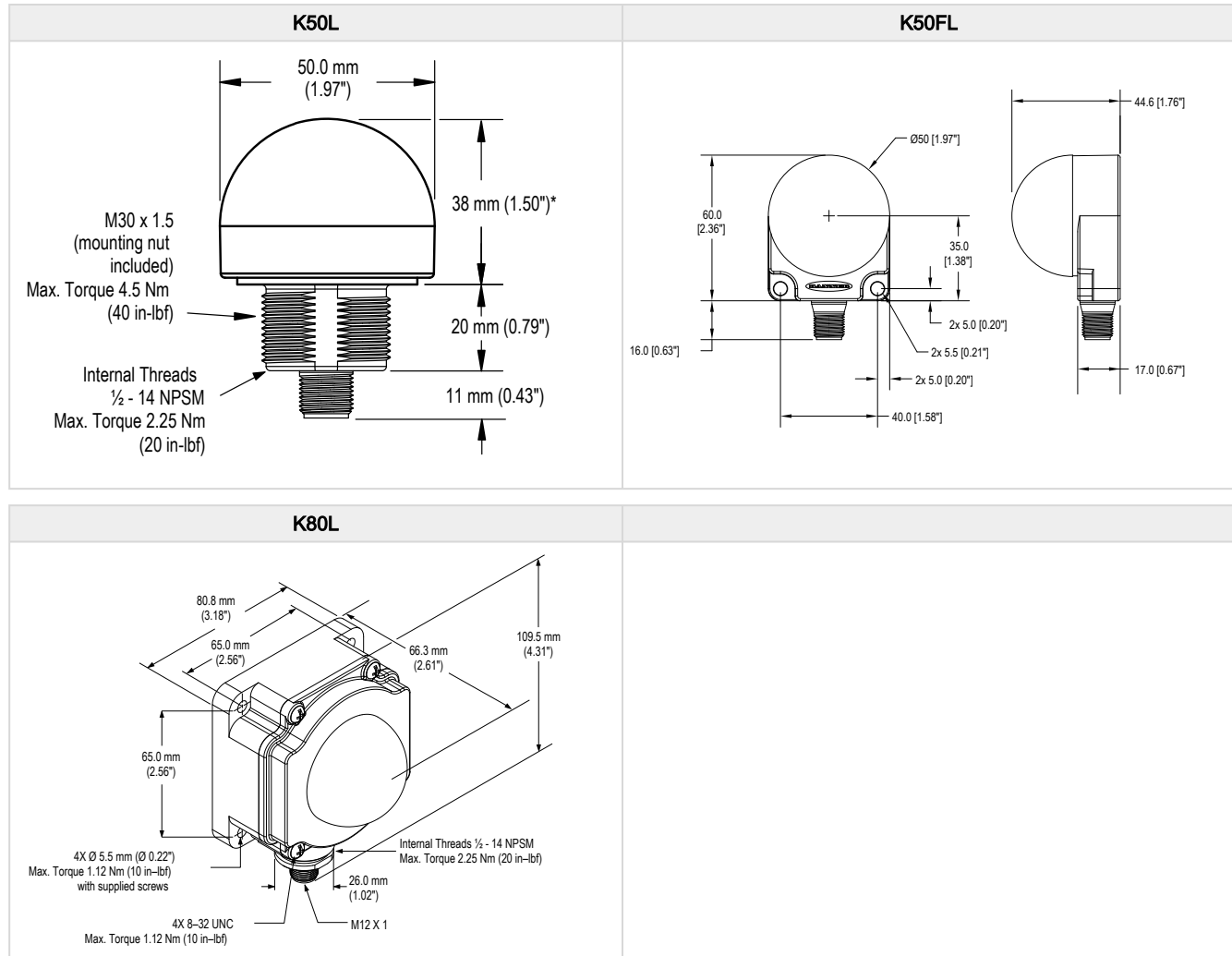


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Maximum intensity vs. viewing angle

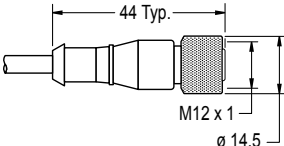
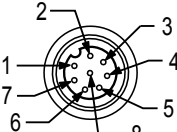
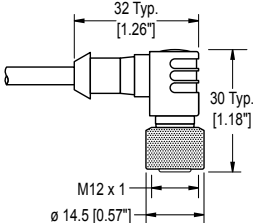


Dimensions



Accessories

Cordsets

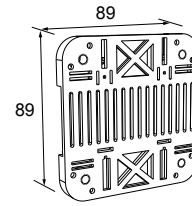
8-Pin Single-Ended M12 Female Open-Shielded Cordsets				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC2S-806	2.04 m (6.7 ft)	Straight		 1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red
MQDC2S-815	5.04 m (16.54 ft)			
MQDC2S-830	10.04 m (32.95 ft)			
MQDC2S-850	16 m (52.49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



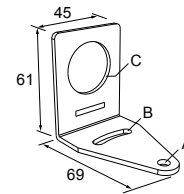
Brackets for K50L and K50FL models

SMB30A

- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (1/4 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

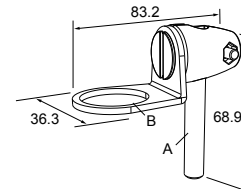


SMB30FA

- 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

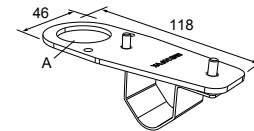
Hole size: B= ø 30.1



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

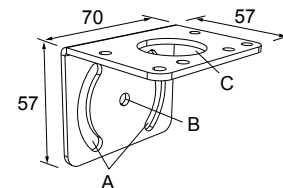


SMB30MM

- 12-gauge stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor

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

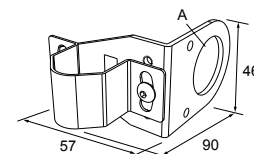
Hole size: A = 42.6 × 7, B = ø 6.4, C = ø 30.1



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

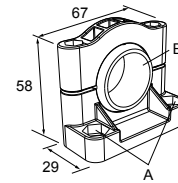


SMB30SC

- 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=Ø 50.8

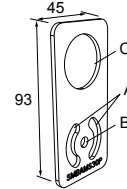
Hole size: A=Ø 7.0, B=Ø 30.0

**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

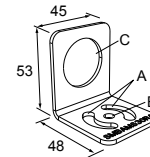
Hole size: A=26.8 × 7.0, B=Ø 6.5, C=Ø 31.0

**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=Ø 6.5, C=Ø 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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