

Datasheet



- 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	8-pin M12/Euro-style Quick Disconnect Fitting	5 Color: Choose Green, Red, Yellow, Blue or White ON, flashing or alternating	PNP
K50LGRYBWNQ8	polycarbonate			NPN
K50FLGRYBWPQ8	50 mm polycarbonate dome/			PNP
K50FLGRYBWNQ8	polycarbonate base			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 K50EL quick-disconnect models meet IP69K per DIN 40050-9

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)



¹ Contact factory for other colors and color combinations.



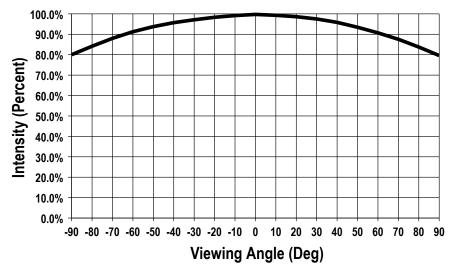
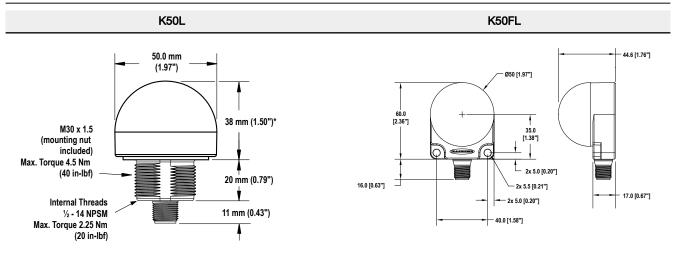
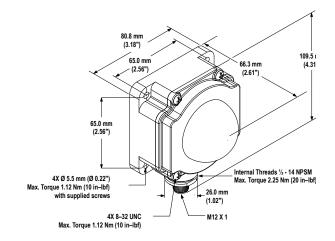


Figure 1. Maximum intensity vs. viewing angle





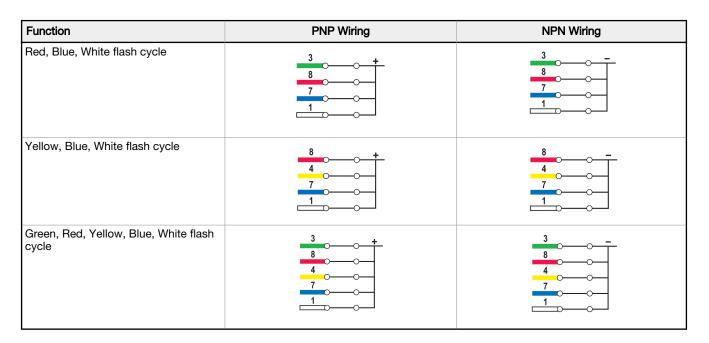
K80L

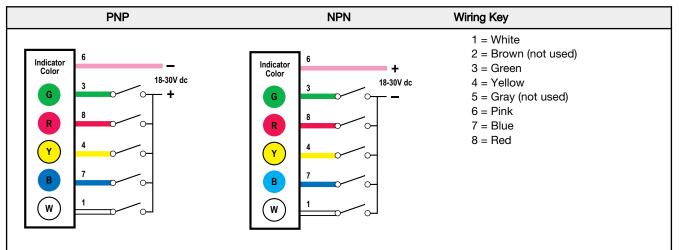


Wiring

Function	PNP Wiring	NPN Wiring
Green on	<u> </u>	<u> </u>
Green flashing		
Red on	<u> </u>	<u> </u>
Red flashing		
Yellow on	<u>4</u> <u>•</u> • +	
Yellow flashing		
Blue on	<u>7</u> <u>o</u> +	- <u>7</u>
Blue flashing		
White on	<u> </u>	
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		

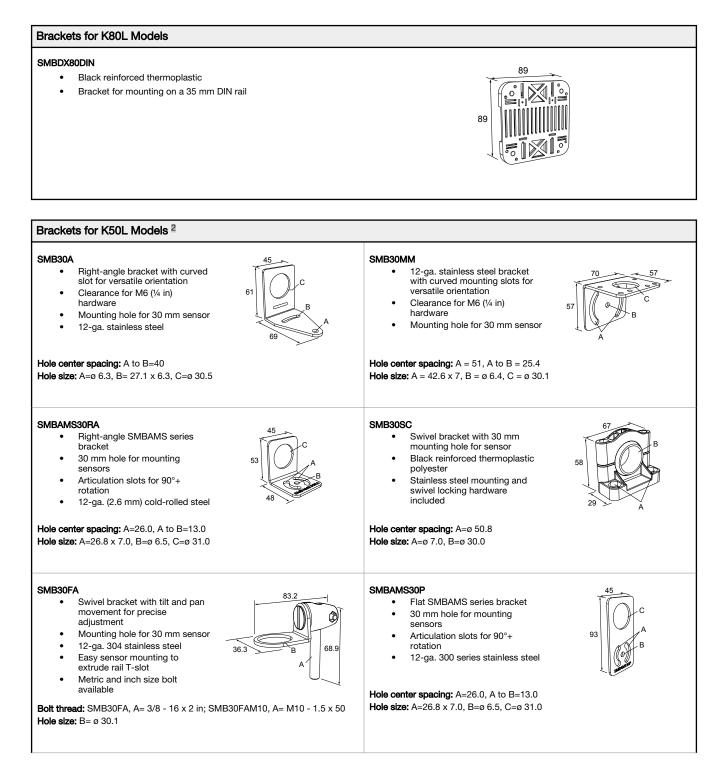
Function	PNP Wiring	NPN Wiring
Red, White flash cycle		
Yellow, Blue flash cycle		
Yellow, White flash cycle		
Blue, White flash cycle		
Green, Red, Yellow flash cycle		
Green, Red, Blue flash cycle		
Green, Red, White flash cycle		
Green, Yellow, Blue flash cycle		
Green, Yellow, White flash cycle		
Green, Blue, White flash cycle		
Red, Yellow, Blue flash cycle	$\begin{array}{c}3\\ \\8\\ \\-\\\\-\\\\-\\\\-\\\\-\\\\-\\\\-\\\\-\\\\-\\\\-\\\\-\\\\-\\\\-$	
Red, Yellow, White flash cycle		



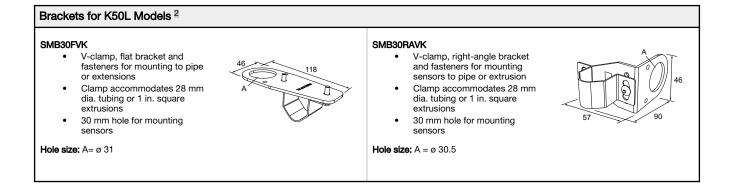


Accessories

8-Pin Threaded M12/Euro-Style Cordsets with Open-Shield						
Model	Length	Style	Dimensions	Pinout (Female)		
MQDC2S-806	1.83 m (6 ft)	Straight	2			
MQDC2S-815	4.57 m (15 ft)					
MQDC2S-830	9.14 m (30 ft)					
MQDC2S-850	15.2 m (50 ft)		M12 x 1 → 0 14.5 →	1 = White 5 = Gray 2 = Brown 6 = Pink 3 = Green 7 = Blue 4 = Yellow 8 = Red		



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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