K50 Core Series General Purpose Indicator



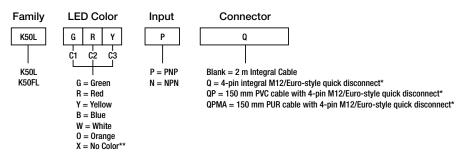
Datasheet

50 mm Multicolor LED Indicator



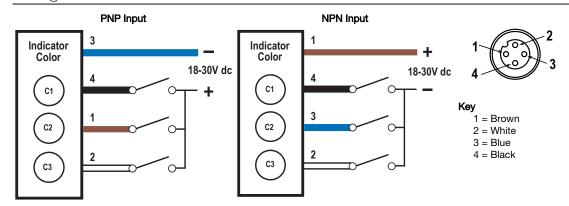
- Bright, uniform indicator light Rugged IP69K per DIN 40050-9 and IEC IP67-rated design 18 V DC to 30 V DC operation
- Operate up to three colors in one device
- Up to six colors to choose from
- PNP or NPN models available
- Variety of connector options

Models



^{*}Models with a quick disconnect require a mating cordset.

Wiring





Original Document 203619 Rev. B

^{**}LED color designated with X also indicates that the associated input wire is not used.

Specifications

Supply Voltage and Current 18 V DC to 30 V DC 40 mA maximum current per color

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Leakage Current Immunity

400 uA

Input Response Time Indicator On/Off: 1 ms maximum

Connections

Integral 4-pin M12/Euro-style male quick disconnect, or 150 mm (6 in) PVC cable with a quick disconnect , or 2 m (6.5 ft) integral PVC cable, depending on model

Construction

Base and dome: Polycarbonate

Mounting

M30 x 1.5 threaded base, maximum torque 4.5 N·m (40 in-lbf) Mounting nut included

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Lumen Output (Typical at 25 °C)
Green	528 nm	20
Red	625 nm	6.0
Yellow	590 nm	20
Blue	470 nm	5.0
Orange	608 nm	11
White	6000 K	16

Certifications





UL applies to K50L models only

Environmental Rating
QD models meet IP69K per DIN 40050-9
Cable models rated IEC IP67



Note: Cable models meet IP69K per DIN 40050-9 if the cable and cable entrance is protected from highpressure spray.

Vibration and Mechanical Shock

All models meet MIL-STD-202F, Method 201A (Vibration: 10 Hz to 60 Hz maximum, 0.06 inch (1.52 mm) double amplitude, 10G maximum acceleration) requirements. Also meets IEC 60947-5-2 (Shock: 30G 11 ms duration, half sine wave) requirements.

Operating Conditions -40 °C to +50 °C (-40 °F to +122 °F)

Required Overcurrent Protection



WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

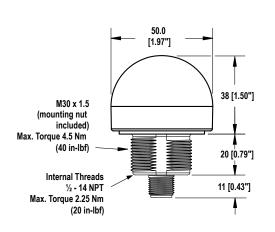
For additional product support, go to www.bannerengineering.com.

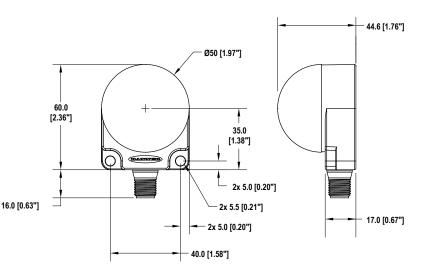
Supply Wiring (AWG)	Required Overcurrent Protection (Amps)	
20	5.0	
22	3.0	
24	2.0	
26	1.0	
28	0.8	
30	0.5	

Dimensions

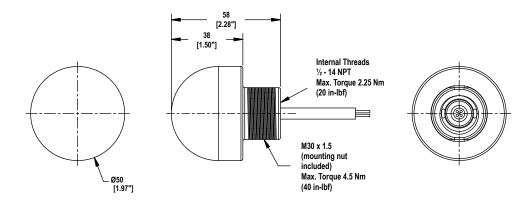
All measurements are listed in millimeters [inches], unless noted otherwise.

K50L Models K50FL Models





K50L Cabled Models



Accessories

Cordsets

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC-406	2 m (6.56 ft)	Straight	Straight 44 Typ.		
MQDC-415	5 m (16.4 ft)				
MQDC-430	9 m (29.5 ft)				
MQDC-450	15 m (49.2 ft)		M12 x 1	1 2 3	
MQDC-406RA	2 m (6.56 ft)	Right-Angle	32 Typ		
MQDC-415RA	5 m (16.4 ft)				
MQDC-430RA	9 m (29.5 ft)			1 = Brown	
MQDC-450RA	15 m (49.2 ft)		30 Typ. [1.18"] M12 x 1 g 14.5 [0.57"]	2 = White 3 = Blue 4 = Black	

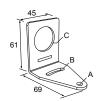
Brackets

SMB30A

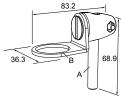
- Right-angle bracket with curved slot for versatile orientation Clearance for M6 (¼ in) hardware Mounting hole for 30 mm sensor 12-ga. stainless steel



Hole center spacing: A to B=40 Hole size: A=Ø 6.3, B= 27.1×6.3 , C=Ø 30.5



- 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= o 30.1

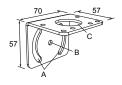
SMB30FVK

- 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



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

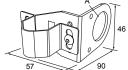


Hole center spacing: A = 51, A to B = 25.4Hole size: $A = 42.6 \times 7$, $B = \emptyset 6.4$, $C = \emptyset 30.1$

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 = Ø 30.5

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-ga. 300 series stainless steel



SMBAMS30RA

SMB30SC

Right-angle SMBAMS series bracket

Swivel bracket with 30 mm mounting hole for sensor Black reinforced thermoplastic

polyester Stainless steel mounting and swivel locking hardware included

- 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

Hole center spacing: A=26.0, A to B=13.0 **Hole size:** A=26.8 \times 7.0, B= \emptyset 6.5, C= \emptyset 31.0

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