EZ-LIGHT K50 Series I/O Block Compatible



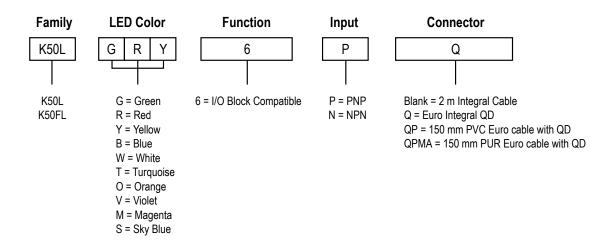
Datasheet

Compact Sized 3 Color Indicator for I/O Block Applications

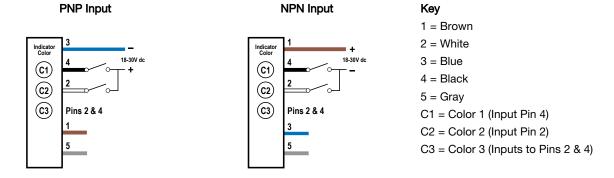


- Bright, uniform indicator light
- Rugged IP67-rated design
- 18 V dc to 30 V dc operation
- Operate up to 3 colors using only 2 inputs
- Up to 10 colors to choose from

Models



Wiring





Original Document 196759 Rev. B

Specifications

Supply Voltage and Current

18 V dc to 30 V dc

50 mA maximum current at 18 V dc to 30 V dc

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Input Response Time

Indicator On: 250 ms maximum Indicator Off: 10 ms maximum

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

Construction

Base and dome: Polycarbonate

Indicators

3 colors

Indicator Characteristics

Color	Dominant Wavelength (nm)	Color Coordinates ¹		Lumen
	or Color Temperature (CCT)	х	Y	- Output (Typical at 25 °C)
Green	528 nm	NA	NA	59
Red	625 nm	NA	NA	17
Yellow	590 nm	NA	NA	56
Blue	470 nm	NA	NA	15
Orange	608 nm	NA	NA	11
White	6000 K	NA	NA	45
Turquoise	NA	0.19	0.37	22
Violet	NA	0.20	0.08	3.5
Magenta	NA	0.35	0.15	4.5
Sky Blue	NA	0.19	0.26	15

Environmental Rating

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



Note: Cable models meet IP69K if the cable and cable entrance is protected from high-pressure

Vibration and Mechanical Shock

All models meet Mil std. 202F requirements. Method 201A (vibration: 10 Hz to 60 Hz max., double amplitude 0.05 inch, maximum acceleration 10F). Also meets IEC 947-5-2 requirements: 30G 11 ms duration, half sine wave.

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

Overcurrent protection is required to be provided by end product

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		

Certifications





Dimensions

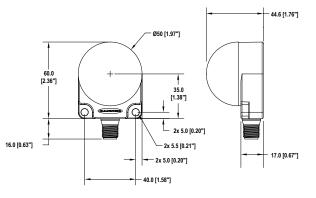
Max. Torque 2.25 Nm

(20 in-lbf)

50.0 mm (1.97")38 mm (1.50") M30 x 1.5 (mounting nut included) Max. Torque 4.5 Nm (40 in-lbf) 20 mm (0.79") Internal Threads 11 mm (0.43") 1/2 - 14 NPT

K50L Models

K50FL Models



Refer to CIE 1931 chromaticity diagram or color chart, to show equivalent color with indicated color coordinates.

Accessories

Cordsets

Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)		 44 Typ 	
MQDC-415	4.57 m (15 ft)		7779	
MQDC-430	9.14 m (30 ft)	Straight		
MQDC-450	15.2 m (50 ft)		M12 x 1 — ø 14.5 —	1-600-2
MQDC-406RA	1.83 m (6 ft)	Right-Angle	32 Typ. [1.26"]	4 3-3
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			1 = Brown
MQDC-450RA	15.2 m (50 ft)		M12 x 1 4 5 [0.57"]	2 = White 3 = Blue 4 = Black

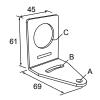
5-Pin Threaded M12/Euro-Style Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC1-501.5	0.50 m (1.5 ft)				
MQDC1-506	1.83 m (6 ft)		,	1	
MQDC1-515	4.57 m (15 ft)	Straight			
MQDC1-530	9.14 m (30 ft)		M12 x 1 — ø 14.5 —		
MQDC1-506RA	1.83 m (6 ft)		,_ 32 Typ.		
MQDC1-515RA	4.57 m (15 ft)				
MQDC1-530RA	9.14 m (30 ft)	Right-Angle	(1.26") 30 Typ. (1.18") 6 14.5 [0.57"]		

Brackets

SMB30A

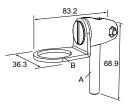
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

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



SMB30FA

- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- Nounting hole for 30 mm sensor
 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available

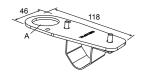


Bolt thread: SMB30FA, A= 3/8 - 16×2 in; SMB30FAM10, A= M10 - 1.5×50 Hole size: B= \emptyset 30.1

SMB30FVK

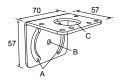
- V-clamp, flat bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm dia. tubing or 1 in. square extrusions
- 30 mm hole for mounting sensors

Hole size: A= Ø 31



SMB30MM

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

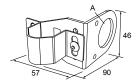


Hole center spacing: A = 51, A to B = 25.4**Hole size:** $A = 42.6 \times 7$. $B = \emptyset 6.4$. $C = \emptyset 30.1$

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: $A = \emptyset 30.5$



SMB30SC

- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included





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



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

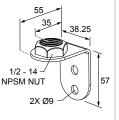


Hole center spacing: A=26.0, A to B=13.0 **Hole size:** A=26.8 \times 7.0, B= \emptyset 6.5, C= \emptyset 31.0

LMBE12RA35

- Direct mounting of stand-off pipe, with common bracket type
- · Zinc-plated steel
- 1/2-14 NPSM nut
- Mounting distance from the wall to the center of the 1/2-14 NPSM nut is 35 mm

Hole center spacing: 20.0



LMBE12RA45

- Direct mounting of stand-off pipe, with common bracket type
- Zinc-plated steel
- 1/2-14 NPSM nut
- Mounting distance from the wall to the center of the 1/2-14 NPSM nut is 45 mm

Hole center spacing: 35.0



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