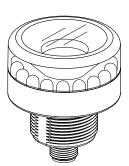
EZ-LIGHT® K50 Rotating and Strobing Beacon



Datasheet

Daylight-visible, general-purpose indicators for indoor or outdoor use



- Intense levels of light output for areas with high ambient light even outdoors
- · Viewable around entire perimeter; strobing models also emit light from top
- · Rotating and Strobing models
- Rugged, sealed thermoplastic housing rated for IP67 and IP69K
- · Bright, even light
- 12 V dc to 30 V dc operation
- 12 V dc operation useful for applications on mobile vehicles



WARNING: Not To Be Used for Personnel Protection

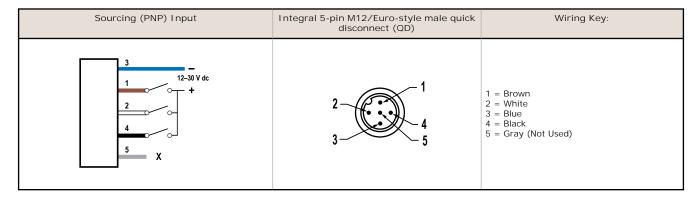
Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or denergized sensor output condition.

Models

Model ¹	Function	Connection	LED Color	Input Voltage
K50BLR1XGXPQ		Integral 5-pin M12/Euro-style male quick disconnect (QD)	Green	12 to 30 V dc
K50BLR1XRXPQ	Rotating		Red	
K50BLR1XYXPQ			Yellow	
K50BLR1XBXPQ			Blue	
K50BCLS1XGXPQ	Strobing		Green	
K50BCLS1XRXPQ			Red	
K50BCLS1XYXPQ			Yellow	
K50BCLS1XBXPQ			Blue	

Wiring

Wire Color		Function for Rotating Models	Function for Strobing Models
Blue (3)	0 V dc	Common	Common
Black (4)	+V dc	ON continuous	ON continuous
Brown (1)	+V dc	Rotating at 90 rpm	Single pulse strobe at 1 Hz
White (2)	+V dc	Rotating at 180 rpm	Double pulse strobe at 1 Hz



- To order the 150 mm PVC pigtail with quick disconnect (QD) model, replace Q with QP in model number (example, K50BLR1XGXPQP).
- To order the 2 m (6.5 ft) cable model, omit suffix Q from model number (example, K50BLR1XGXP)
- Models with a QD requires a mating cable (refer to the Accessories list).



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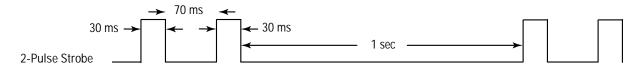


Figure 1. Timing diagram for 1 pulse or 2 pulses

Specifications

Supply Voltage and Current

12-30 V dc

Rotating models: 140 mA maximum at 12 V dc, 70 mA maximum at 30 V dc Strobing models: 160 mA maximum at 12 V dc, 100 mA maximum at 30 V dc

Supply Protection Circuitry
Protected against reverse polarity and transient voltages

LED function depends on the model and wiring (see Wiring on page 1)

Indicator Power-Up Response Time

Construction

Base and covers: polycarbonate

Connections

Integral 5-pin M12/Euro-style male quick disconnect (QD) or 2 m (6.5 ft) integral cable, depending on model

Operating Conditions $-40~^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to +122 $^{\circ}\text{F})$

90% @ 50 °C max. relative humidity (non-condensing)

Environmental Rating

Rated IEC IP67 and IP69K, per DIN 40050

Application Note

Light emits 360° from housing sides and from housing top, some models



Vibration and Mechanical Shock

All models meet Mil. Std. 202F requirements method 201A (vibration: 10 to 60 Hz max., double amplitude 0.06", maximum acceleration 10G). Also meets IEC 947-5-2; 30G 11 ms duration, half sine wave.

Certifications





Required Overcurrent Protection



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

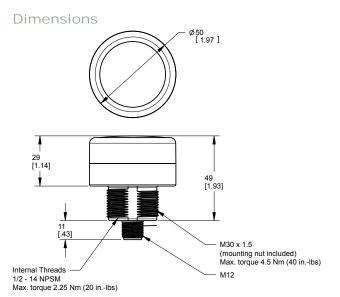
Overcurrent protection is required to be provided by end product application per the supplied table.

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 http://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



Accessories

Cordsets

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)			
MQDC-415	4.57 m (15 ft)	Straight		
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)		M12 x 1 — ø 14.5 —	1-(00)2
MQDC-406RA	1.83 m (6 ft)	Right-Angle	, 32 Тур.	4
MQDC-415RA	4.57 m (15 ft)		[1.26"] —	
MQDC-430RA	9.14 m (30 ft)			1 = Brown
MQDC-450RA	15.2 m (50 ft)		30 Typ. [1.18"] M12 x 1 ø 14.5 [0.57"]	2 = White 3 = Blue 4 = Black

LMB Sealed Right-Angle Bracket

Model	Description	Construction		
LMB30RA		Black polycarbonate		
LMB30RAC	Direct-Mount Models: Bracket kit with base, 30 mm adapter, set screw, fasteners, o-rings, and gaskets	Gray polycarbonate		
LMBE12RA		Black polycarbonate		
LMBE12RAC	Pipe-Mount Models: Bracket kit with base, ½-14 pipe adapter, set screw, fasteners, o-rings, and gaskets. For use with stand-off pipe (listed and sold separately)	Gray polycarbonate		

Accessory Mounting Brackets

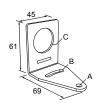
All measurements are in mm

SMB30A

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

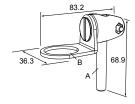
Hole center spacing: A to B=40 Hole size: $A=\emptyset$ 6.3, $B=27.1 \times 6.3$, $C=\emptyset$ 30.5

12-ga. stainless steel



SMB30FA

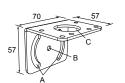
- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available



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

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



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

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

Elevated Mount System

Model			Features	Components
SA-M30TE12 - Black Acetal SA-M30TE12C - White UHMW			Streamlined black acetal or white UHMW stand-off pipe adapter/cover Connects between 30 mm light base and ½ in. NPSM/ DN15 pipe Mounting hardware included	
Polished 304 Stainless Steel SOP-E12-150SS 150 mm (6 in) long SOP-E12-300SS 300 mm (12 in) long SOP-E12-900SS 900 mm (36 in) long	Black Anodized Aluminum SOP-E12-150A 150 mm (6 in) long SOP-E12-300A 300 mm (12 in) long SOP-E12-900A 900 mm (36 in) long	Clear Anodized Aluminum SOP-E12-150AC 150 mm (6 in) long SOP-E12-300AC 300 mm (12 in) long SOP-E12-900AC 900 mm (36 in) long	Elevated-use stand-off pipe (½ in. NPSM/DN15) Polished 304 stainless steel, black anodized aluminum, or clear anodized aluminum surface ½ in. NPT thread at both ends Compatible with most industrial environments	
SA-E12M30 - Black Acetal SA-E12M30C - White UHMW			Streamlined black acetal or white UHMW mounting base adapter/cover Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included	

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