EZ-LIGHT® K50 Rotating and Strobing Beacon

BANNER®
more sensors, more solutions

Datasheet

Daylight-visible, general-purpose indicators for indoor or outdoor use
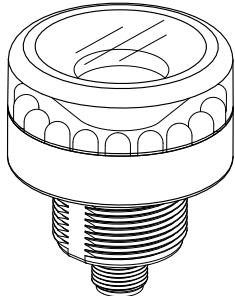
- Intense levels of light output for areas with high ambient light - even outdoors
- Viewable around entire perimeter; strobing models also emit light from top
- Rotating and strobing models
- Rugged, sealed thermoplastic housing rated for IP67 and IP69K per DIN 40050-9
- Bright, even light
- 12 V dc 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 de-energized sensor output condition.

Models

Model [1]	Function	Connection	LED Color	Input Voltage
K50BLR1XGXPQ	Rotating	Integral 5-pin M12/Euro-style quick disconnect	Green	12 to 30 V dc
K50BLR1XRXPQ			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

Sourcing (PNP) Input	Integral 5-pin M12/Euro-style quick disconnect	Wiring Key:
3 — 1 12–30 V dc + 2 4 5 X	1 2 3 4 5	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray (Not Used)

---

[1]
- 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**).
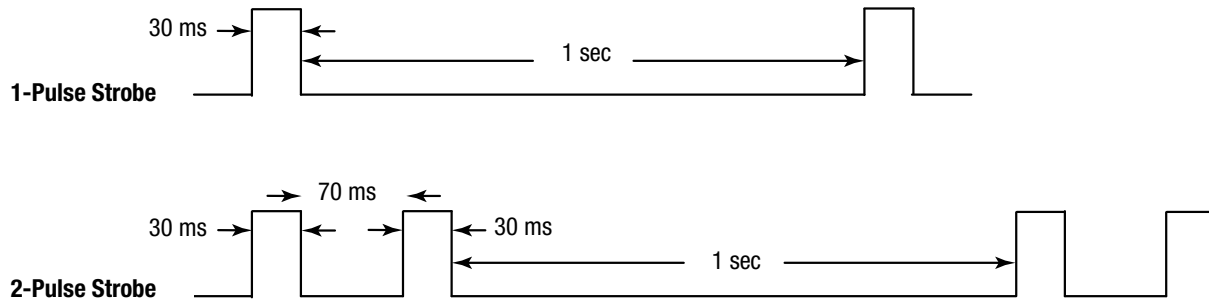- Models with a QD requires a mating cable (refer to the Accessories list).

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

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

Indicator Power-Up Response Time
ON: 250 ms

Construction
Base and covers: polycarbonate

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

Operating Conditions
–40 °C to +50 °C (–40 °F to +122 °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

Rotating Models

LIGHT DIRECTION

Strobing Models

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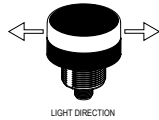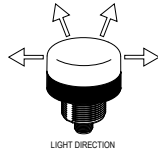
Vibration and Mechanical Shock
All models meet Mil. Std. 202F requirements method 201A (vibration: 10 to 60 Hz max., double amplitude 0.06", maximum acceleration 10G). Also meets IEC 947-5-2; 30G 11 ms duration, half sine wave.

Certifications
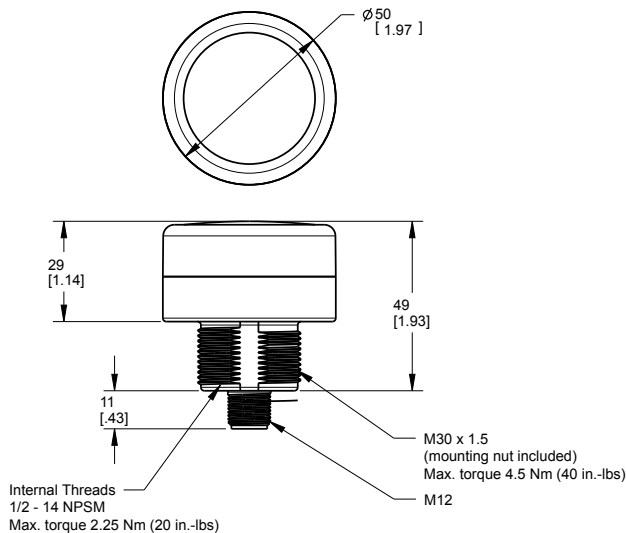

Required Overcurrent Protection

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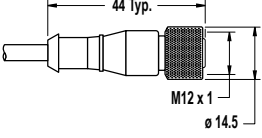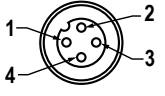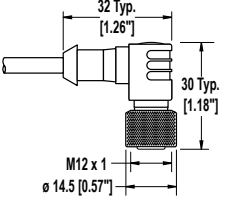For additional product support, go to *www.bannerengineering.com*.

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

Ø 50
[1.97]

29
[1.14]

49
[1.93]

11
[.43]

M30 x 1.5
(mounting nut included)
Max. torque 4.5 Nm (40 in.-lbs)

M12

Internal Threads
1/2 - 14 NPSM
Max. torque 2.25 Nm (20 in.-lbs)

Accessories

Cordsets

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDC-406	1.83 m (6 ft)	Straight		
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)			
MQDC-406RA	1.83 m (6 ft)	Right-Angle		1 = Brown 2 = White 3 = Blue 4 = Black
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 ft)			

LMB Sealed Right-Angle Bracket

Model	Description	Construction	
LMB30RA	**Direct-Mount Models:** Bracket kit with base, 30 mm adapter, set screw, fasteners, O-rings, and gaskets.	Black polycarbonate	
LMB30RAC		Gray polycarbonate	
LMBE12RA	**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).	Black polycarbonate	
LMBE12RAC		Gray polycarbonate	

Mounting Brackets

All measurements are listed in millimeters, unless noted otherwise.

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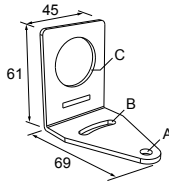
Hole center spacing: A to B=40
Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5

SMB30FA
- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available
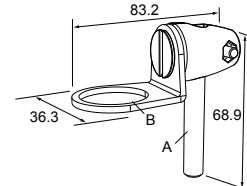
Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50
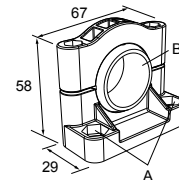**Hole size:** B= ø 30.1

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
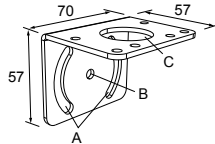
Hole center spacing: A = 51, A to B = 25.4
Hole size: A = 42.6 x 7, B = ø 6.4, C = ø 30.1

SMB30SC
- Swivel bracket with 30 mm mounting hole for sensor
- Black reinforced thermoplastic polyester
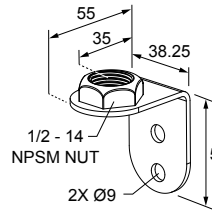- Stainless steel mounting and swivel locking hardware included

Hole center spacing: A=ø 50.8
Hole size: A=ø 7.0, B=ø 30.0

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
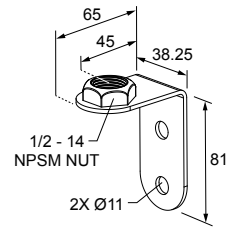
Hole center spacing: 20.0

55
35
38.25
1/2 - 14 NPSM NUT
57
2X Ø9

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

65
45
38.25
1/2 - 14 NPSM NUT
81
2X Ø11

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	**Black Anodized Aluminum**	**Clear Anodized Aluminum**		
SOP-E12-150SS 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 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	
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long		
SOP-E12-900SS 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long		
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	

Banner Engineering Corp. Limited Warranty

BANNER®
more sensors, more solutions

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Beacons *category:*

Click to view products by Banner *manufacturer:*

Other Similar products are found below :

K50APTWXDQ K50ABT2XGH K50APT2GXDQ K50ABTGRHQ K50APT2FGRYF2QP K50LGRYPPB1Q K50APTGRCQ

K50APTGRYF2 K50ABT2GYHQ K50APTGRYC3Q K50APT2GREQP K50APT2GRYF2Q K100PBLGYRQ K30LGRYPPB2

K30APPBGREQP K30APT2FGRYF2QP K30LGRXPPB2Q K30LGRYPPB2Q K30APT2RGF2 K30APTXRF2 K30APTXWF2

K30PTALRGB7 K30PTAMGRY3QP K30PTALGRY3Q K30PTAMGRY3Q K30PTALRGB7Q K30PTAMRGB7Q K50APPBGRYF2Q8

K50BCLXRXPQ K50BCLS1XYXPQ K50BCLGRBP K50BCLXGXP K50BCLS1XRXPQ K50BLGRXPQ K50LGRYPPB2

K50LGXXPPB2Q K50LGRXPPB2Q K50LBXXPPB2Q K50LGYXPPB2Q K50PBLSQ K50PBLRGB7Q K50PFF100AMGRY3Q

K50PTAMGRY3 K50PTAMGRY3AQP K50PTKAQ K50PTAMGRY3AQ K50PTAMRGB7AQ K50PTCAMGRY3AQ

K50PTCAMGRY3Q-812166 K50PTCAMGRY3Q