

EZ-LIGHT® K50L and K80L Audible Indicator Lights



Datasheet

DC-Operated Indicators with Steady or Pulsed Sound Indication

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, see www.bannerengineering.com.



Figure 1. K50L



Figure 2. K80L

- Rugged, cost-effective, and easy-to-install indicators available in K50 or K80 housing style
- Steady or pulsed sound indication
- Illuminated dome provides a big, easy-to-see green, red or amber job light
- Compact devices are completely self-contained, no controller needed
- Choose NPN or PNP input, depending on model
- Immune to EMI and RFI interference
- 18 V dc to 30 V dc operation
- Three color LED function: green, red, and amber



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	Construction	Audible Tone ²	Input
K50LGRA1YPQ	50 mm dome/30 mm mount polycarbonate	Steady (75 dB)	PNP
K50LGRA1YNQ			NPN
K50LGRA2YPQ		Pulsed (75 dB)	PNP
K50LGRA2YNQ			NPN
K50LGRAL1YPQ		Loud Steady (95 dB)	PNP
K50LGRAL1YNQ			NPN
K80LGRA1YPQ	50 mm dome/Flat or DIN-mount polycarbonate, nylon	Steady (75 dB)	PNP
K80LGRA1YNQ			NPN
K80LGRA2YPQ		Pulsed (75 dB)	PNP
K80LGRA2YNQ			NPN
K80LGRAL1YPQ		Loud Steady (95 dB)	PNP
K80LGRAL1YNQ			NPN

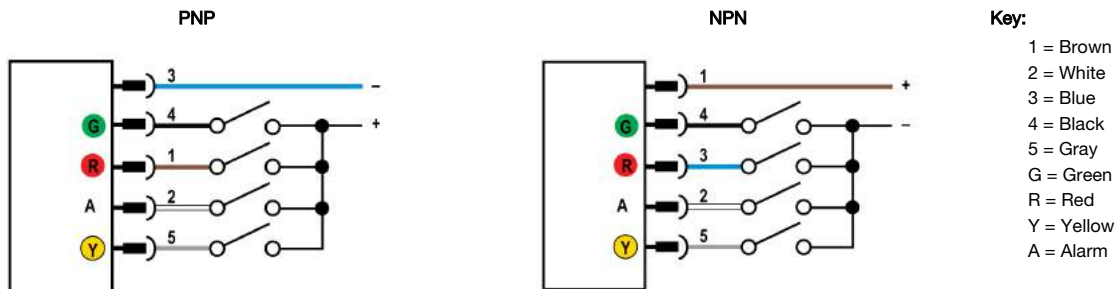
¹ Integral quick disconnect models are listed.

- To order the 150 mm (6 in) PVC cable model, replace the suffix "Q" with "QP" in the model number. For example, K50LGRA1YPQP.
- K50L Models: To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K50LGRA1YP.
- K80L Models: To order the terminal-wired model, omit the suffix "Q" in the model number. For example, K80LGRA2YP.
- Models with a quick disconnect require a mating cordset.
- Contact Banner Engineering for other colors and color combinations.

² Typical decibel level is at a distance of 1 m.



Wiring Diagrams



Specifications

Supply Voltage and Current

18 V dc to 30 V dc at 40 mA maximum, per LED color (alarm)

Input Response Time

Indicator ON/OFF: 10 ms maximum

Oscillation Frequency

A1 models: 3 kHz $\pm$ 500 Hz

A2 models: 3 kHz $\pm$ 500 Hz; pulse rate 3 Hz $\pm$ 20%

AL1 models: 2.7 kHz $\pm$ 500 Hz

Operating Conditions

-20 °C to +50 °C (-4 °F to +122 °F)

Environmental Rating

IEC IP50

K50L models only: NEMA/UL Type 4X, 13

Certifications

All models:



K50L models only:



Indicators

LEDs or audible independently selected: green, red, amber

Connections

Integral 5-pin M12/Euro-style quick disconnect, or 150 mm (6 in) PVC cable with a 5-pin M12/Euro-style quick disconnect, or 2 m (6.5 ft) unterminated 5-wire PVC cable, depending on model

K80L Models: Terminal-wired models for use with bulk cable available

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.

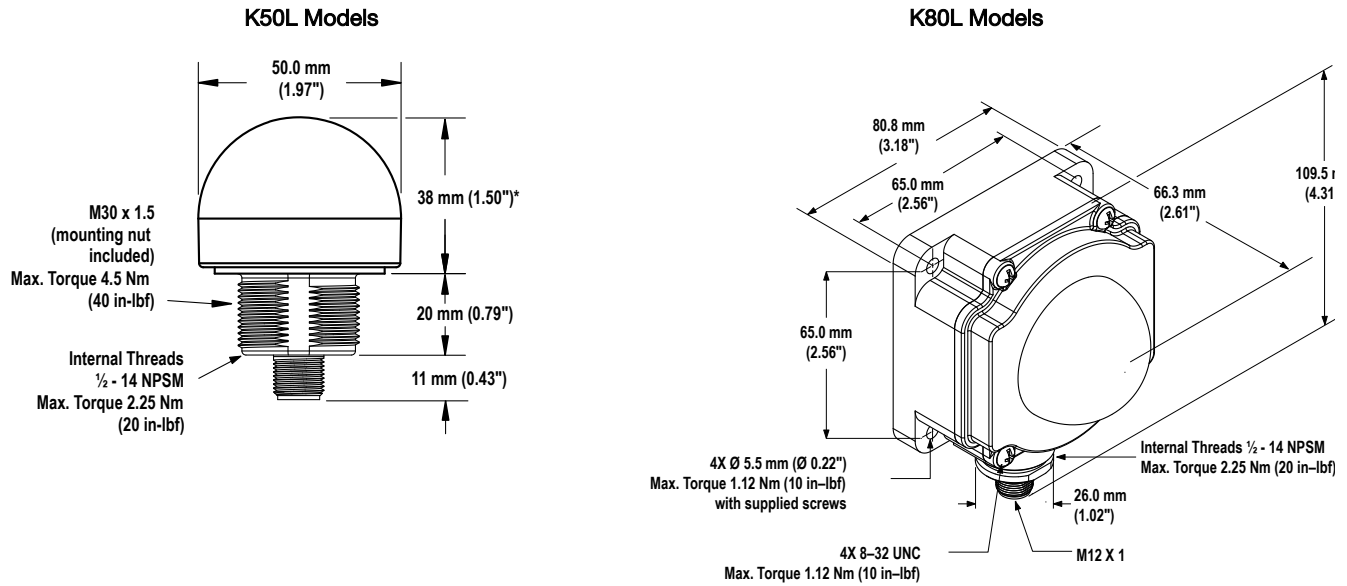
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

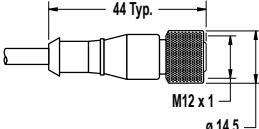
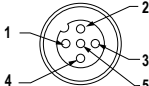
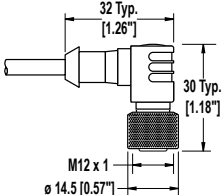
For additional product support, go to www.bannerengineering.com.

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



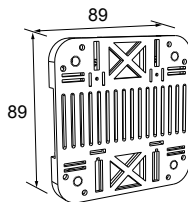
Accessories

5-Pin Threaded M12/Euro-Style Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC1-501.5	0.50 m (1.5 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray	
MQDC1-506	1.83 m (6 ft)				
MQDC1-515	4.57 m (15 ft)				
MQDC1-530	9.14 m (30 ft)				
MQDC1-506RA	1.83 m (6 ft)	Right-Angle			
MQDC1-515RA	4.57 m (15 ft)				
MQDC1-530RA	9.14 m (30 ft)				

K80L Brackets

SMBDX80DIN

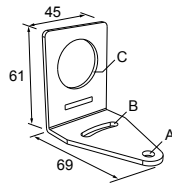
- Black reinforced thermoplastic
- Bracket for mounting on a 35 mm DIN rail



K50L 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

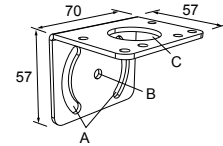


Hole center spacing: A to B=40

Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5

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

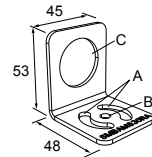


Hole center spacing: A = 51, A to B = 25.4

Hole size: A = 42.6 x 7, B = ø 6.4, C = ø 30.1

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

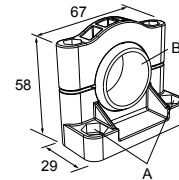


Hole center spacing: A=26.0, A to B=13.0

Hole size: A=26.8 x 7.0, B=ø 6.5, C=ø 31.0

SMB30SC

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

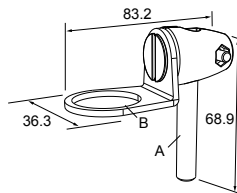


Hole center spacing: A=ø 50.8

Hole size: A=ø 7.0, B=ø 30.0

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

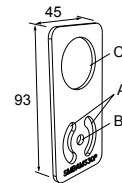


Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50

Hole size: B= ø 30.1

SMBAMS30P

- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. 300 series stainless steel

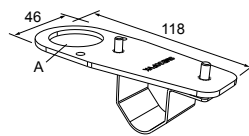


Hole center spacing: A=26.0, A to B=13.0

Hole size: A=26.8 x 7.0, B=ø 6.5, C=ø 31.0

SMB30FVK

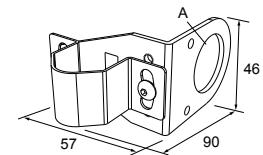
- V-clamp, flat bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm dia. tubing or 1 in. square extrusions
- 30 mm hole for mounting sensors



Hole size: A= ø 31

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

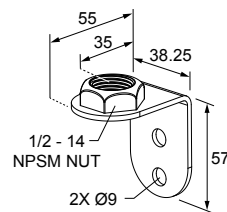


Hole size: A = ø 30.5

LMBE12RA35

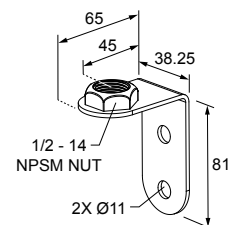
- Direct mounting of stand-off pipe, with common bracket type
- Zinc-plated steel
- 1/2-14 NPSM nut
- Mounting distance from the wall to the center of the 1/2-14 NPSM nut is 35 mm

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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