

EZ-LIGHT® K50L Sealed Audible Indicators



For the latest technical information about this product, including specifications, dimensions, and wiring, see www.BannerEngineering.com



- Rugged, cost-effective, and easy-to-install bright indicators with audible alarm
- Fully sealed and rated at IP67 or IP69K, depending on model
- Compact devices are completely self-contained - no controller needed
- Immune to EMI and RFI interference
- Loud audible alarm with intensity adjustment (IP67 models)
- 12 to 30V dc operation
- Available in continuous and staccato tones (IP67 models)

Models

Model*	Environmental Rating	Connection*	LED Function**	Audible Tone†	Input
Fixed Audible Sealed Models					
K50LGXASXPQ	IP69K	5-pin Euro QD	1 Color: Green	Fixed tone volume	PNP
K50LGRASXPQ			2 Color: Green, Red		
K50LGRASYPQ			3 Color: Green, Red, Yellow		
Adjustable Loud Audible Sealed Models					
K50LGXALSXPQ	IP67	5-pin Euro QD	1 Color: Green	Continuous tone with volume adjustment	PNP
K50LGRALSXPQ			2 Color: Green, Red		
K50LGRALSYPQ			3 Color: Green, Red, Yellow		
K50LGXALS4XPQ	IP67	5-pin Euro QD	1 Color: Green	Staccato tone with volume adjustment	PNP
K50LGRALS4XPQ			2 Color: Green, Red		
K50LGRALS4YPQ			3 Color: Green, Red, Yellow		

* Integral QD models only are listed.

- For 150 mm (5.9 in) PVC pigtail with QD, replace "Q" with "QP" in the model number (example, **K50LGXASXPQP**).
- For 2 m (6.5 ft) cable, omit suffix "Q" from the model number (example, **K50LGXASXP**).
- A model with a QD requires a mating cable (see [5-Pin Euro-Style Cordsets](#) on page 4).

** Contact the factory for other colors and color combinations.



WARNING: Not To Be Used for Personnel Protection

Never use this product as a sensing device for personnel protection. Doing so could lead to serious injury or death. This product 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.

Installation in Very Wet Environments

For best sound quality and volume when mounting an IP67 audible indicator model in an extremely wet environment, consider the mounting orientation. Mount the indicator horizontally or facing downward, so that water will drain easily. Upright mounting will allow water to collect in the alarm cavity, which will muffle the sound.

Specifications

Supply Voltage and Current

Operating voltage: 12 to 30V dc (10% max. ripple)

Indicators: 65 mA at 12V dc; 35 mA at 30V dc max. current per color

Audible: 35 mA max. current

Supply Protection Circuitry

Protected against reverse polarity, transient voltages

Input Response Time

Indicator ON/OFF: 1 ms (max.)

Audible ON/OFF: 10 ms (max.)

Audible Alarm

IP67 Models: 2.9KHz \pm 250 Hz oscillation frequency; max. intensity 94 db at 1 m (3.3 ft) (typical)

IP69K Models: 2.9KHz \pm 250 Hz oscillation frequency; max. intensity 65 db at 1 m (3.3) (typical)

Audible Adjustment

Rotate the front cover until the desired intensity is achieved (IP67 models only)

Construction

Fixed Audible Sealed Models: Polycarbonate housing and audible alarm

Adjustable Loud Audible Sealed Models: Polycarbonate housing and PPO audible alarm

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.

Environmental Rating

Fixed Audible Sealed Models: IEC IP67 / IP69K per DIN 40050-9

Adjustable Loud Audible Sealed Models: IEC IP67

Connections

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

Operating Conditions

-20° to +50°C (-4° to +122°F)

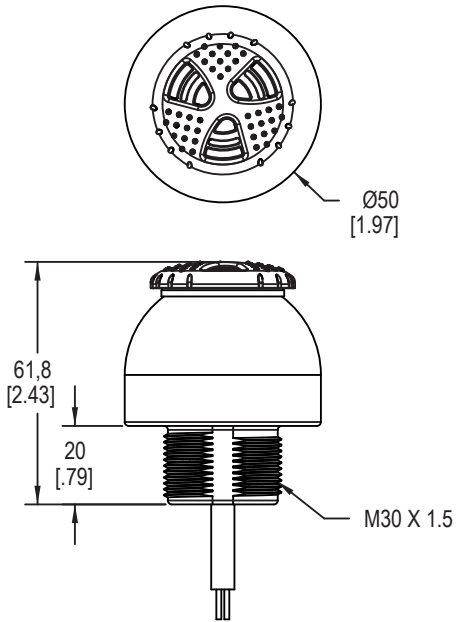
95% max. relative humidity (non-condensing)

Certifications

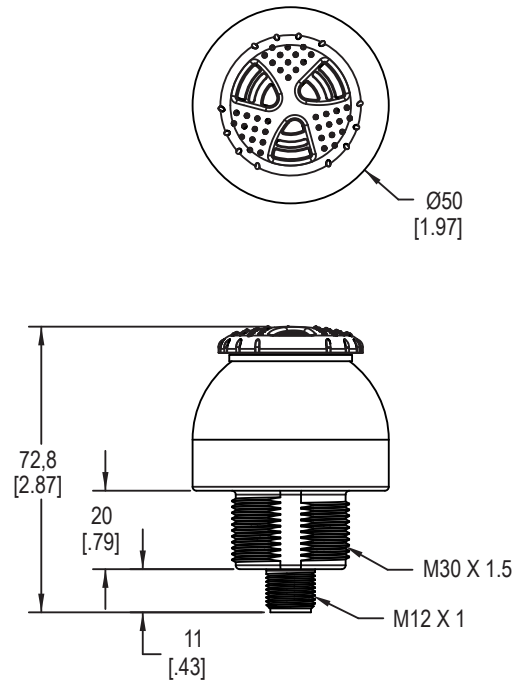


Dimensions

Cabled Dimensions

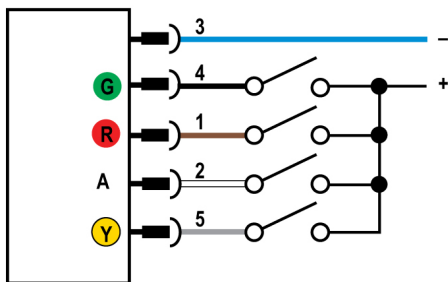


QD Dimensions



Wiring

PNP (Sourcing)

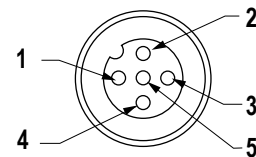


- 1 = Brown
- 2 = White
- 3 = Blue
- 4 = Black
- 5 = Gray

Key:

- G = Green LED
- R = Red LED
- Y = Yellow LED
- A = Alarm

Pinout



NOTE: When fewer than 3 LED colors are used, the corresponding wires are unused.

Accessories

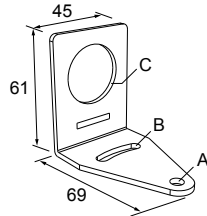
5-Pin Euro-Style Cordsets

5-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout
MQDC1-501.5	0.50 m (1.5 ft)	Straight		<p>1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray</p>
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)			

Mounting Brackets

SMB30A

- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

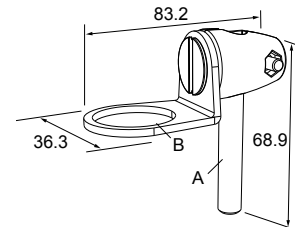


Hole center spacing: A to B=40

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

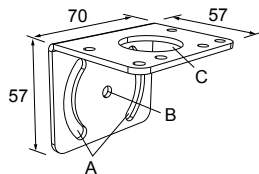


Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50

Hole size: B= ø 30.1

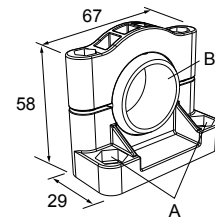
SMB30MM

- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor



SMB30SC

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



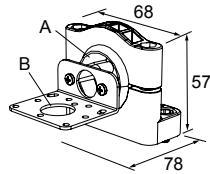
Hole center spacing: A=ø 50.8

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

Hole size: A=ø 7.0, B=ø 30.0

SMB30SK

- Flat-mount swivel bracket with extended range of motion
- Black reinforced thermo-plastic polyester and 316 stainless steel
- Stainless steel swivel locking hardware included



Hole center spacing: A = 50.8

Hole size: A = ø 7, B = ø 18

Elevated Mount System

Model			Features	Components
SA-M30E12 - Black Acetal			<ul style="list-style-type: none"> • Streamlined black acetal 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	<ul style="list-style-type: none"> • 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-E12-150SS 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long		
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			<ul style="list-style-type: none"> • Streamlined black acetal 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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