# EZ-LIGHT® K50L Sealed Audible Indicators



# Datasheet

For the latest technical information about this product, including specifications, dimensions, and wiring, see <a href="https://www.bannerengineering.com">www.bannerengineering.com</a>.



- 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 30 V dc operation
- Available in continuous and staccato tones (IP67 models)

Model	Environmental Rating	Connection	LED Function <sup>1</sup>	Audible Tone†	Input		
Fixed Audible Sealed Models							
K50LGXASXPQ	- IP69K	5-pin M12 QD	1 Color: Green		PNP		
K50LGRASXPQ			2 Color: Green, Red				
K50LGRASYPQ			3 Color: Green, Red, Yellow	Fixed tone volume			
K50LGXASXNQ			1 Color: Green		NPN		
K50LGRASXNQ			2 Color: Green, Red				
K50LGRASYNQ			3 Color: Green, Red, Yellow				
Adjustable Loud Audible Sealed Models							
K50LGXALSXPQ			1 Color: Green		PNP		
K50LGRALSXPQ			2 Color: Green, Red				
K50LGRALSYPQ			3 Color: Green, Red, Yellow	Continuous tone with volume adjustment			
K50LGXALSXNQ			1 Color: Green		NPN		
K50LGRALSXNQ			2 Color: Green, Red				
K50LGRALSYNQ	IP67	F === M12 OD	3 Color: Green, Red, Yellow				
K50LGXALS4XPQ	IP67	5-pin M12 QD	1 Color: Green	Staccato tone with volume adjustment	PNP		
K50LGRALS4XPQ			2 Color: Green, Red				
K50LGRALS4YPQ			3 Color: Green, Red, Yellow				
K50LGXALS4XNQ			1 Color: Green		NPN		
K50LGRALS4XNQ			2 Color: Green, Red				
K50LGRALS4YNQ			3 Color: Green, Red, Yellow				

Integral quick disconnect fitting models only are listed.

- To order the 150 mm (5.9 in) PVC cable with quick disconnect fitting model, replace "Q" with "QP" in the model number (example, K50LGXASXPQP).
- To order the 2 m (6.5 ft) cable model, omit suffix "Q" from the model number (example, K50LGXASXP).
- A model with a quick disconnect fitting requires a mating cable (see 5-Pin Euro-Style Cordsets on page 3).



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<sup>1</sup> Contact the factory for other colors and color combinations.



## 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.

# Specifications

# Supply Voltage and Current

Operating voltage: 12 to 30 V dc

Indicators (Maximum current per color): 65 mA at 12 V dc; 35 mA at

30 V dc

Audible: 35 mA maximum current

# Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### Input Response Time

Indicator ON/OFF: 1 ms (max.) Audible ON/OFF: 10 ms (max.)

### Audible Alarm

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

I P69K Models: 2.9 kHz ± 250 Hz oscillation frequency; max. intensity Certifications 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

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 quick disconnect fitting or 2 m (6.5 ft) integral cable, depending on model

### Operating Conditions

-20 °C to +50 °C (-4 °F to +122 °F)

95% maximum relative humidity (non-condensing)





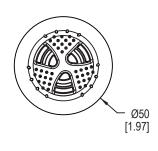
NPN Models: Pending approval

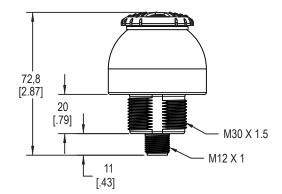
# **Dimensions**

# Cabled Dimensions

# [1.97] 61,8 [2.43]20 [.79] M30 X 1.5

# QD Dimensions

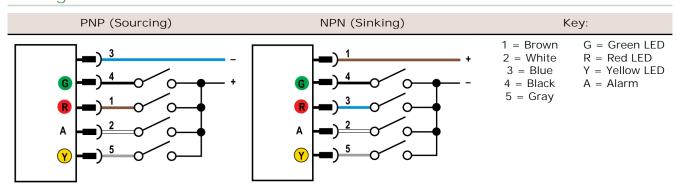




# Installation in Very Wet Environments

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 to allow water to drain easily. Upright mounting will allow water to collect in the alarm cavity, which will muffle the sound.

# Wiring





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

# Accessories

# 5-Pin Euro-Style Cordsets

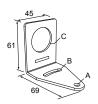
5-Pin Threaded M12/Euro-Style Cordsets (Single Ended)					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC1-501.5	0.50 m (1.5 ft)	Straight	44 Typ.  M12 x 1  g 14.5	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray	
MQDC1-506	1.83 m (6 ft)				
MQDC1-515	4.57 m (15 ft)				
MQDC1-530	9.14 m (30 ft)				
MQDC1-506RA	1.83 m (6 ft)	Right-Angle	32 Typ. [1.26"] 30 Typ. [1.18"] M12 x 1		
MQDC1-515RA	4.57 m (15 ft)				
MQDC1-530RA	9.14 m (30 ft)				

# Mounting Brackets

### SMB30A

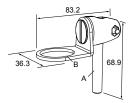
- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

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



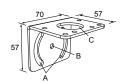
Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 -1.5 x 50

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

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



## 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



### SMB30SK

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

Hole center spacing: A = 50.8Hole size:  $A = \emptyset 7$ ,  $B = \emptyset 18$ 



# **Elevated Mount System**

Model			Features Components
SA-M30E12 - Black Acetal			<ul> <li>Streamlined black acetal stand-off pipe adapter/cover</li> <li>Connects between 30 mm light base and ½ in. NPSM/DN15 pipe</li> <li>Mounting hardware included</li> </ul>
Polished 304	Black Anodized	Clear Anodized	طاء
Stainless Steel	Aluminum	Aluminum	
SOP-E12-150SS 150	SOP-E12-150A 150	SOP-E12-150AC 150	<ul> <li>Elevated-use stand-off pipe (½ in. NPSM/DN15)</li> <li>Polished 304 stainless steel, black anodized</li> </ul>
mm (6 in) long	mm (6 in) long	mm (6 in) long	
SOP-E12-300SS 300	SOP-E12-300A 300	SOP-E12-300AC 300	aluminum, or clear anodized aluminum surface  ½ in. NPT thread at both ends  Compatible with most industrial environments
mm (12 in) long	mm (12 in) long	mm (12 in) long	
SOP-E12-900SS 900	SOP-E12-900A 900	SOP-E12-900AC 900	
mm (36 in) long	mm (36 in) long	mm (36 in) long	
SA-E12M30 - Black Acetal			<ul> <li>Streamlined black acetal mounting base adapter/cover</li> <li>Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole</li> <li>Mounting hardware included</li> </ul>

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