# EZ-LIGHT™ K50LD Daylight Visible Indicators (AC)



### Datasheet

AC-Operated Indicators for Outdoor Applications

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



- Intense levels of light output for outdoor applications
- Controlled field of view for signage and narrow lane use
- May also be used for low-cost vision sensor illumination
- Rugged, cost-effective, and easy to install
- · Compact devices are completely self-contained, no controller needed
- Immune to EMI and RFI interference
- 50 mm (2 in) diameter with flat profile and 30 mm (1.2 in) mounting base
- 85 V ac to 130 V ac operation



**Note:** Optional sun shield model K50DS is available for enhanced visibility in desert sun brightness levels (see *Sun Shield -- MASTER* on page 4).

Model <sup>1</sup>	LED Function	Inputs	
K50LDGA120Q	1 Color: Green		
K50LDRA120Q	1 Color: Red		
K50LDYA120Q	1 Color: Yellow	85 to 130 V ac	
K50LDWA120Q	1 Color: White		
K50LDBA120Q	1 Color: Blue		



#### 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

85 to 130 V ac or 75 to 120 V dc at 16 mA maximum

### Supply Protection Circuitry

Protected against transient voltages

### Indicators

Color	Typical Wavelength or Color Temperature	Typical Intensity (Im)	
Green	525 nm	14	
Red	625 nm	4	
Yellow	590 nm	5	
Blue	470 nm	5	
White	6200 K	12	

### Input Response Time

Indicator ON/OFF: 500 µs maximum

### Construction

Polycarbonate, 30 mm mount

### Connections

Integral 3-pin Micro-style quick disconnect fitting or 2 m (6.5 ft) integral cable, depending on model

### **Environmental Rating**

Fully encapsulated, IEC IP67

### Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F)

90% at +55 °C maximum relative humidity (non-condensing)

### Certifications



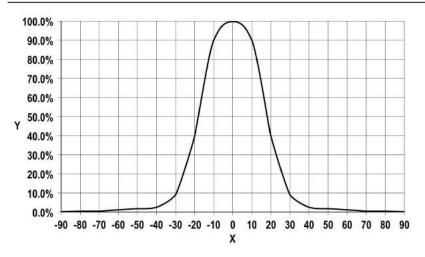
Original Document 152843 Rev. D

<sup>1</sup> Integral quick disconnect fitting models are listed.

To order the 2 m (6.5 ft) cable model, omit the suffix Q from model number (example, K50LDGA120).

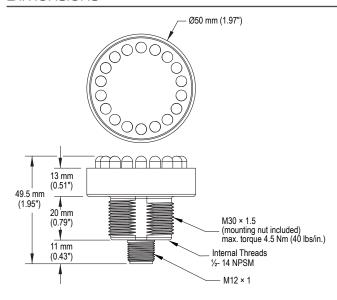
Models with a quick disconnect fitting require a mating cable (see Accessories list).

## Percent of Maximum Intensity vs Viewing Angle

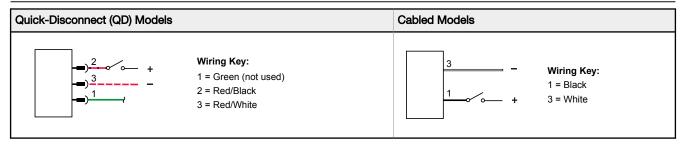


X: Viewing Angle (Deg) Y: Intensity (Percent)

### Dimensions



### Wiring



### Accessories

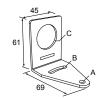
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-306	1.83 m (6 ft)		40.7	
MQDC-315	4.57 m (15 ft)		1/2-20 UNF-28 o 14.5	
MQDC-330	9.14 m (30 ft)	Straight		
MQDC-306RA	1.83 m (6 ft)		<del>-</del> 32 Typ <del></del>	3 10 94 2
MQDC-315RA	4.57 m (15 ft)		32 Typ —	
MQDC-330RA	9.14 m (30 ft)	Right-Angle	28 Typ  1/2-20 UNF-28 Ø 14.5	1 = Green 2 = Red/Black 3 = Red/White

### Mounting 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



#### 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

53 C A B

**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

### SMBAMS30P

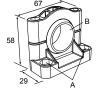
- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-ga. 300 series stainless steel

**Hole center spacing:** A=26.0, A to B=13.0 **Hole size:** A=26.8  $\times$  7.0, B= $\emptyset$  6.5, C= $\emptyset$  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

### SMB30MM

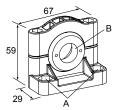
- 12-ga. stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (¼ in) hardware
- Mounting hole for 30 mm sensor



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

### SMB3018SC

- 18 mm swivel side or barrelmount bracket
- Black reinforced thermoplastic polyester
- Stainless steel swivel locking hardware included

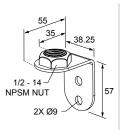


Hole center spacing: A = 50.8Hole size:  $A = \emptyset 7.0$ ,  $B = \emptyset 18.0$ 

#### 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

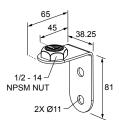
Hole center spacing: 20.0



### 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



### Sun Shield -- MASTER

### K50DS

- Use for enhanced visibility in desert sun brightness levels
- Thermoplastic polyester



### K90DS

- Use for enhanced visibility in direct sunlight conditions
- Polycarbonate



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