

## Features

### AC-Operated Indicators for Outdoor Applications

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, go to [www.bannerengineering.com](http://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

#### WARNING:



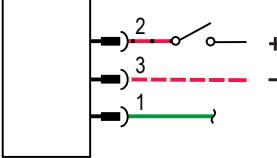
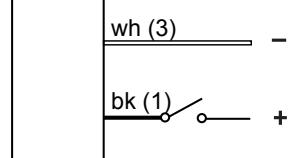
- **Do not use this device for personnel protection**
- Using this device for personnel protection could result in serious injury or death.
- This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A device failure or malfunction can cause either an energized (on) or de-energized (off) output condition.

## Models

**NOTE:** Optional sun shield model K50DS is available for enhanced visibility in desert sun brightness levels (see [Sun Shields](#)).

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

## Wiring

Quick-Disconnect Models	Cabled Models
 Wiring Key: 1 = Green (not used) 2 = Red/Black 3 = Red/White	

(1)

Integral quick-disconnect connector 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 connector require a mating cordset (see [Accessories](#)).

## Specifications

### Supply Voltage and Current

85 V AC to 130 V AC, or 75 V DC to 120 V DC, at 16 mA maximum

### Supply Protection Circuitry

Protected against transient voltages

### Indicators

Color	Typical Wavelength or Color Temperature	Typical Intensity (lm)
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  $\mu$ s maximum

### Construction

Polycarbonate, 30 mm mount

### Connections

Integral 3-pin 1/2 in. 20UNF male quick-disconnect connector or 2 m (6.5 ft) integral PVC-jacketed cable, depending on model

### Environmental Rating

Fully encapsulated, IP67

### Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F)

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

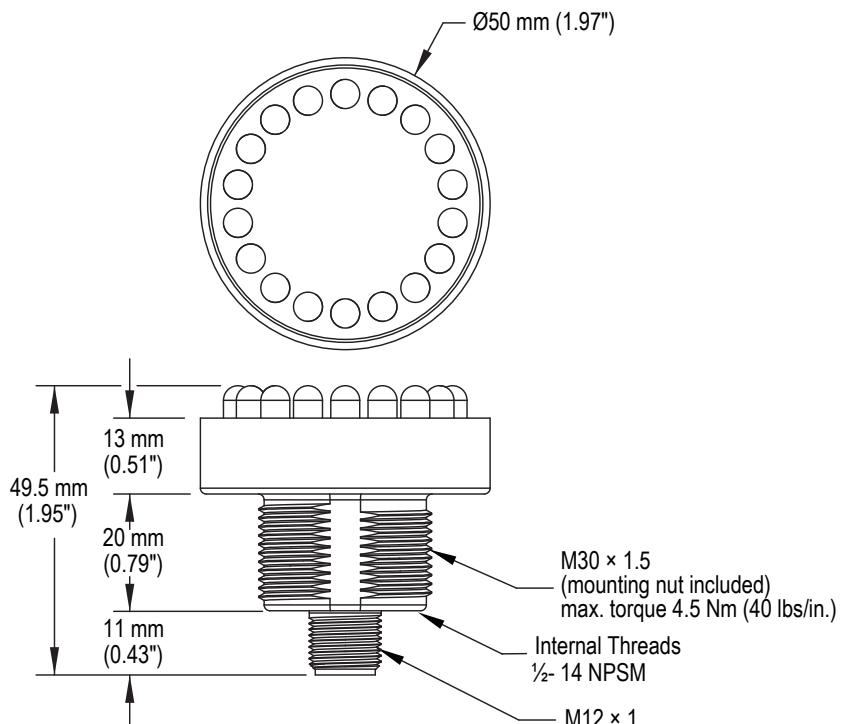
### Certifications



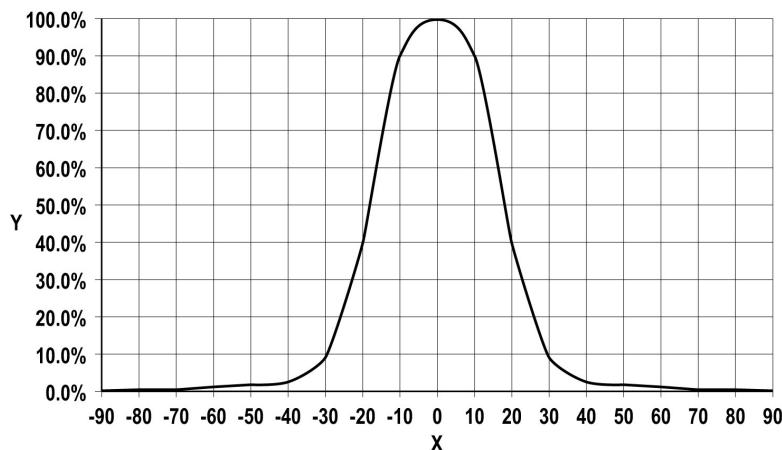
Banner Engineering BV  
Park Lane, Culliganlaan 2F bus 3  
1831 Diegem, BELGIUM

## Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.



## Percent of Maximum Intensity vs Viewing Angle



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

## Accessories

3-pin Single-Ended 1/2-in Dual Key Female Cordsets					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC-306	2 m (6.56 ft)	Straight			
MQDC-315	5 m (16.40 ft)				
MQDC-330	9 m (29.53 ft)				
MQDC-306RA	1.83 m (6 ft)				
MQDC-315RA	4.57 m (15 ft)				
MQDC-330RA	9.14 m (30 ft)				

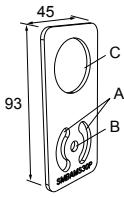
## Mounting Brackets

<b>SMB30A</b> <ul style="list-style-type: none"> <li>Right-angle bracket with curved slot for versatile orientation</li> <li>Clearance for M6 (1/4 in) hardware</li> <li>Mounting hole for 30 mm sensor</li> <li>12-gauge stainless steel</li> </ul> <p><b>Hole center spacing:</b> A to B=40  <b>Hole size:</b> A=Ø 6.3, B= 27.1 × 6.3, C=Ø 30.5</p>	
<b>SMBAMS30RA</b> <ul style="list-style-type: none"> <li>Right-angle SMBAMS series bracket</li> <li>30 mm hole for mounting sensors</li> <li>Articulation slots for 90°+ rotation</li> <li>12-gauge (2.6 mm) cold-rolled steel</li> </ul> <p><b>Hole center spacing:</b> A=26.0, A to B=13.0  <b>Hole size:</b> A=26.8 × 7.0, B=Ø 6.5, C=Ø 31.0</p>	

**SMBAMS30P**

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

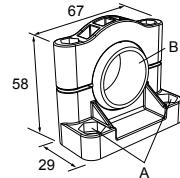
**Hole center spacing:** A=26.0, A to B=13.0  
**Hole size:** A=26.8 x 7.0, B=Ø 6.5, C=Ø 31.0



**SMB30SC**

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

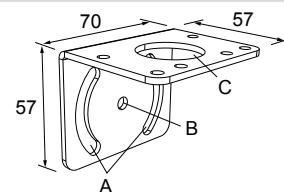
**Hole center spacing:** A=Ø 50.8  
**Hole size:** A=Ø 7.0, B=Ø 30.0



**SMB30MM**

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

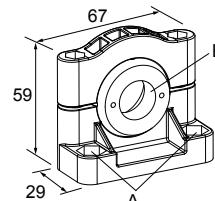
**Hole center spacing:** A = 51, A to B = 25.4  
**Hole size:** A = 42.6 x 7, B = Ø 6.4, C = Ø 30.1



**SMB3018SC**

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

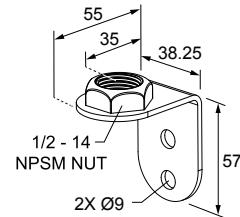
**Hole center spacing:** A = 50.8  
**Hole size:** A = Ø 7.0, B = Ø 18.0



**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

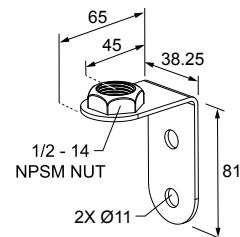
**Hole center spacing:** 20.0



**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 Shields

**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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