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.



- 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

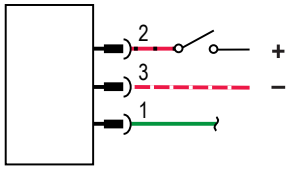
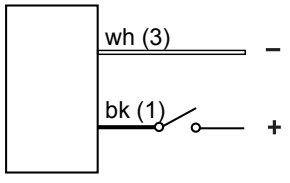
WARNING:
- **Do not use this device for personnel protection**
- Using this device for personnel protection could result in serious injury or death.
- This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A device failure or malfunction 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 [1]	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).

Original Instructions
30-Jun-25

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152843
p/n: 152843 Rev. E

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

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 µs 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

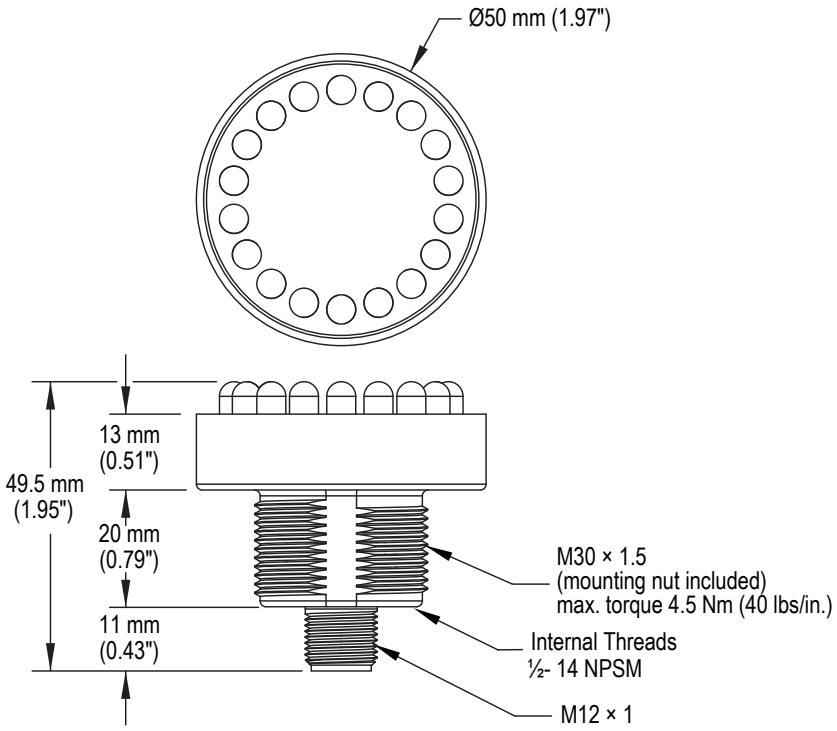
Environmental Rating
Fully encapsulated, IP67

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.



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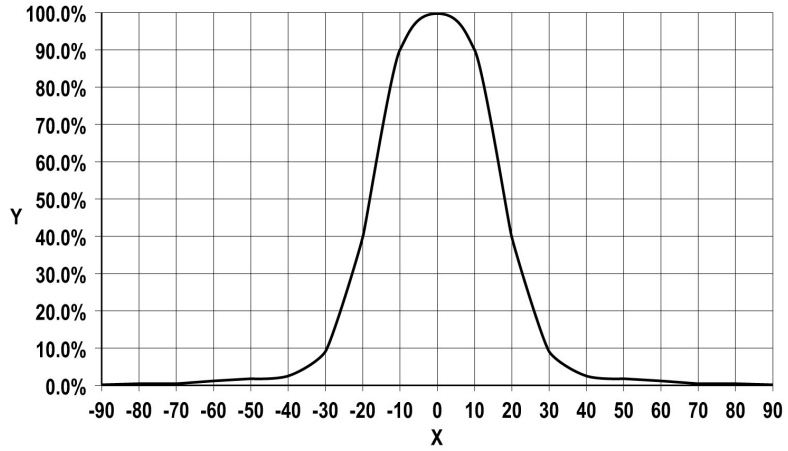
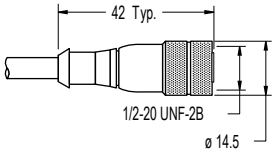
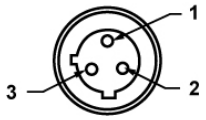
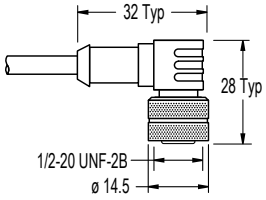
Percent of Maximum Intensity vs Viewing Angle



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)	Right-Angle		
MQDC-315RA	4.57 m (15 ft)			
MQDC-330RA	9.14 m (30 ft)			

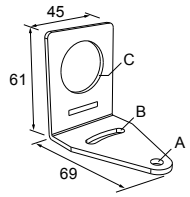
1 = Green
2 = Red/Black
3 = Red/White

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-gauge stainless steel

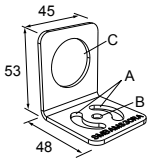
Hole center spacing: A to B=40
Hole size: A=ø 6.3, B= 27.1 × 6.3, C=ø 30.5



SMBAMS30RA

- Right-angle SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-gauge (2.6 mm) cold-rolled steel

Hole center spacing: A=26.0, A to B=13.0
Hole size: A=26.8 × 7.0, B=ø 6.5, C=ø 31.0



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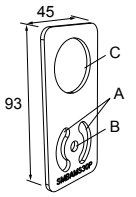
SMBAMS30P

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

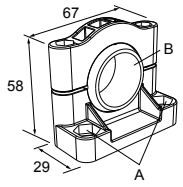
Hole center spacing: A=26.0, A to B=13.0
Hole size: A=26.8 × 7.0, B=ø 6.5, C=ø 31.0



SMB30SC

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

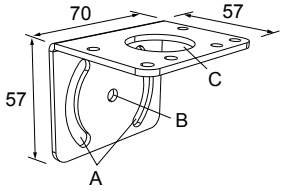
Hole center spacing: A=ø 50.8
Hole size: A=ø 7.0, B=ø 30.0



SMB30MM

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

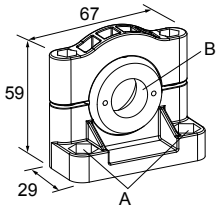
Hole center spacing: A = 51, A to B = 25.4
Hole size: A = 42.6 × 7, B = ø 6.4, C = ø 30.1



SMB3018SC

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

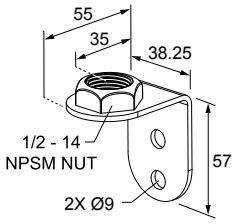
Hole center spacing: A = 50.8
Hole size: A = ø 7.0, B = ø 18.0



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

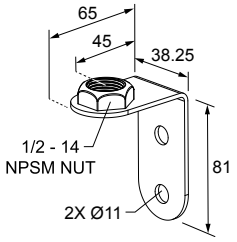
Hole center spacing: 20.0



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



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K90DS • Use for enhanced visibility in direct sunlight conditions • Polycarbonate	

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