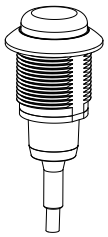
EZ-LIGHT® S18 High Intensity Indicators

Datasheet

One-Color DC-Operated LED Indicator



- M12 connector models available for plug and play indication
- Wide 9 V DC to 30 V DC operating range allows for use in battery powered mobile applications
- IP69K rated to withstand harsh wash-down environments
- Wide operating range of –40 °C to +60 °C (–40 °F to +140 °F)
- May also be used in task lighting or vision lighting applications
- Intense light level is viewable in direct sunlight

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

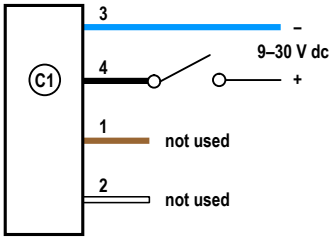
S18DLH Models

Housing	Color	Connection
S18DLH	B	Q
	B = Blue G = Green R = Red W = White Y = Yellow	Blank = 2 m (6.5 ft.) PVC Cable Q = 4-pin M12 QD QP = 150 mm (5.9 in) PVC Cable with 4-pin M12 QD T = Four Screw Terminals Models with a quick disconnect require a mating cordset

Example Models	Indicator Color	Connector
S18DLHG	Green	2 m (6.5 ft) PVC cable
S18DLHWQ	White	4-pin M12 integral quick disconnect
S18DLHRQP	Red	150 mm (6 in) PVC cable with a 4-pin M12 quick disconnect
S18DLHYT	Yellow	Four screw terminals

Wiring Diagram

PNP



Key

1 = Brown
2 = White
3 = Blue
4 = Black
C1 = Color 1

Specifications

Supply and Voltage Current

9 V DC to 30 V DC
60 mA at 9 V DC; 25 mA at 30 V DC

Indicator Response Time

Indicator ON/OFF: 1 ms max

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Lumen Output (Typical at 25 °C)
Green	530 nm	20
Red	625 nm	12.5
Yellow	596 nm	7.5
Blue	478 nm	6.5
White	5000 K	20

Connections

4-pin M12 integral QD, 150 mm (5.9 in) PVC cable with QD, or 4-wire, 2 m (6.5 ft) PVC integral cable, 4 color-coded screw terminals for up to 16 AWG wire, depending on model, screw terminal max. torque 0.11 N·m (1.0 lbf·in)

Operating Conditions

–40 °C to +60 °C (–40 °F to +140 °F)

Environmental Rating

Rated IEC IP67, and IP69K, per DIN 40050-9. Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray. Indicator side of terminal models meet IP67, and IP69K when installed in an enclosure. Screw connection points meet IP00
Meets UL type 4X and 13, when used in a suitable enclosure

Construction

UV stabilized polycarbonate housing
PBT mounting nut max torque 2.3 N·m (20 lbf·in)
Nitrile sealing washer

Required Overcurrent Protection

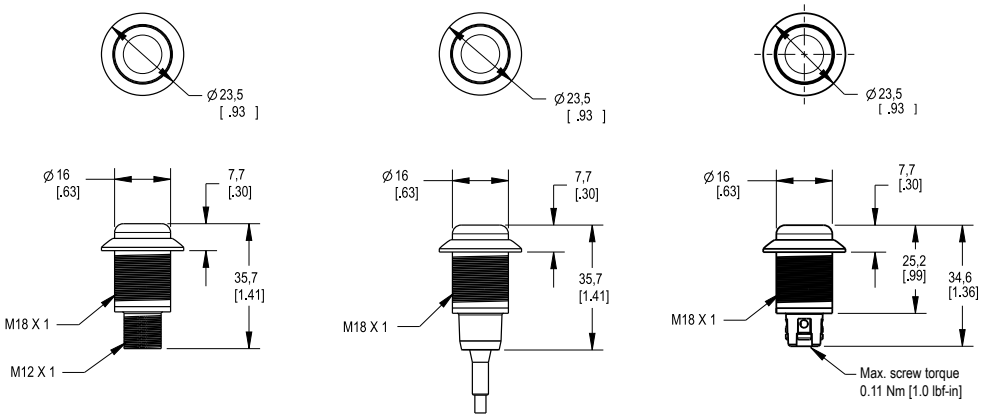
WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.
Supply wiring leads < 24 AWG shall not be spliced.
For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Certifications

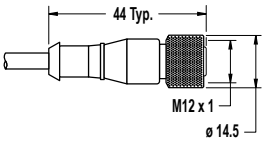
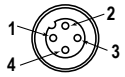
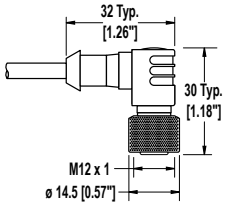
Dimensions



QD Models | Cable Models | Terminal Models

Accessories

Cordsets

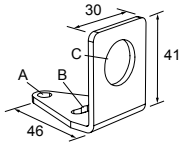
4-Pin Threaded M12 Cordsets—Single Ended				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDC-406	2 m (6.56 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black
MQDC-415	5 m (16.4 ft)			
MQDC-430	9 m (29.5 ft)			
MQDC-450	15 m (49.2 ft)			
MQDC-406RA	2 m (6.56 ft)	Right-Angle		
MQDC-415RA	5 m (16.4 ft)			
MQDC-430RA	9 m (29.5 ft)			
MQDC-450RA	15 m (49.2 ft)			

Mounting Brackets

All measurements are listed in millimeters, unless noted otherwise.

SMB18A

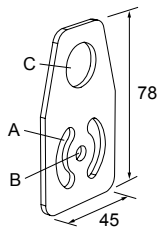
- Right-angle mounting bracket with a curved slot for versatile orientation
- 12-ga. stainless steel
- 18 mm sensor mounting hole
- Clearance for M4 (#8) hardware



Hole center spacing: A to B = 24.2
Hole size: A = ø 4.6, B = 17.0 × 4.6, C = ø 18.5

SMBAMS18P

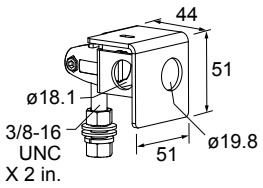
- Flat SMBAMS series bracket with 18 mm hole
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



Hole center spacing: A = 26.0, A to B = 13.0
Hole size: A = 26.8 × 7.0, B = ø 6.5, C = ø 19.0

SMB18AFA..

- Protective, swivel bracket with tilt and pan movement for precision adjustment
- Easy sensor mounting to extruded rail T-slots
- Metric and inch size bolts available
- Mounting hole for 18 mm sensors

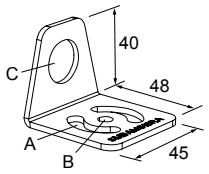


Hole size: B = ø 18.1

Model	Bolt Thread (A)
SMB18AFA	3/8 - 16 × 2 in
SMB18AFAM10	M10 - 1.5 × 50

SMBAMS18RA

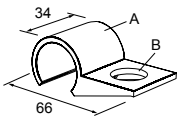
- Right-angle SMBAMS series bracket with 18 mm hole
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



Hole center spacing: A = 26.0, A to B = 13.0
Hole size: A = 26.8 × 7.0, B = ø 6.5, C = ø 19.0

SMBC18

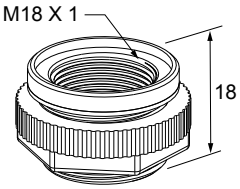
- 18 mm sensor mounting hole
- Snaps onto 28 mm diameter structural framing



A = ø 26.9 mm
Hole size: B = ø 18.4

LMB1822FM

- Adaptor for mounting the S18L into standard 22 mm holes
- Includes adaptor, nut, and gasket



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