# Features

*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

*Model Key*

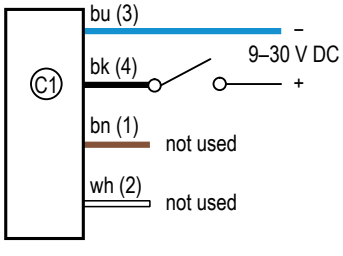
| Housing | Color | Connection[1] |
|---|---|---|
| **S18DLH** | **B** | **Q** |
| | B = Blue<br>G = Green<br>R = Red<br>W = White<br>Y = Yellow | Blank = 2 m (6.5 ft) integral PVC-jacketed cable<br>Q = Integral 4-pin M12 male quick-disconnect connector<br>QP = 150 mm (6 in) PVC-jacketed cable with a 4-pin M12 male quick-disconnect connector<br>T = 4 screw terminals |

*Example Models*

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

# Wiring

**PNP**




**Key**

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

[1] Models with a quick-disconnect connector require a mating cordset.

Original Instructions
26-Aug-25

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177054
p/n: 177054 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

# 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**

Integral 4-pin M12 male quick-disconnect connector, 150 mm (6 in) PVC-jacketed cable with a 4-pin M12 male quick-disconnect connector, or 4-wire, 2 m (6.5 ft) integral PVC-jacketed 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 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 (A) | Supply Wiring (AWG) | Required Overcurrent Protection (A) |
|---|---|---|---|
| 20 | 5.0 | 26 | 1.0 |
| 22 | 3.0 | 28 | 0.8 |
| 24 | 2.0 | 30 | 0.5 |

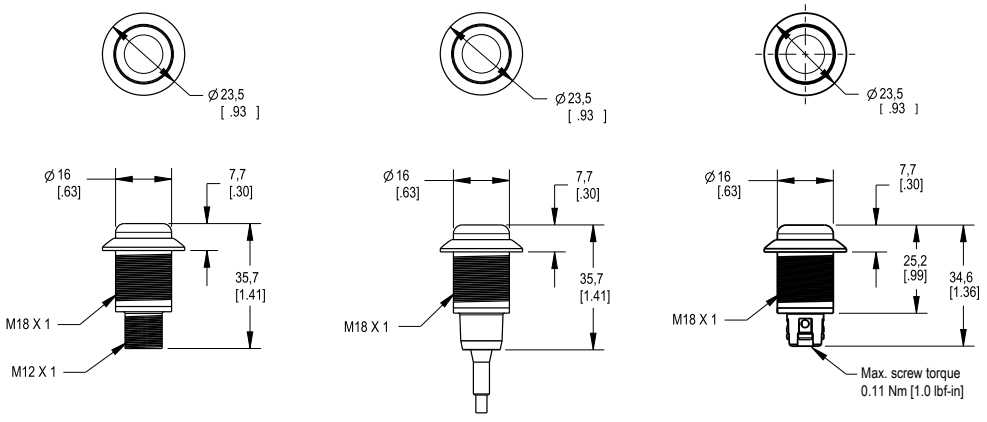
**Certifications**

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# Dimensions

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

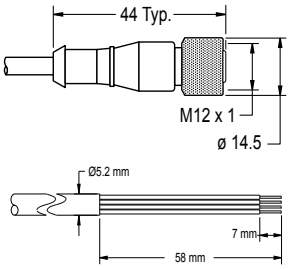
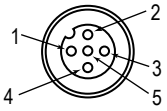
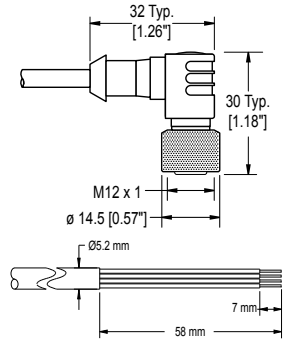
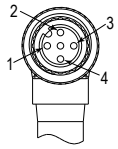



QD Models | Cable Models | Terminal Models


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# Accessories

## Cordsets

| 4-Pin Single-Ended M12 Female Cordsets | | | | | |
|---|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** | |
| **MQDC-406** | 2 m (6.56 ft) | Straight |  |  | 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Not used<br>c UL us |
| **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) | | | | |

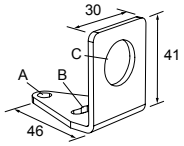
## Brackets

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

**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

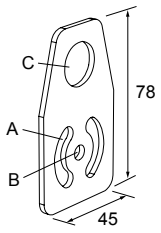
**Hole center spacing:** A to B = 24.2
**Hole size:** A = ø 4.6, B = 17.0 × 4.6, C = ø 18.5




**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



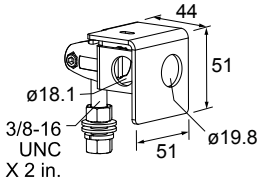

**SMB18AFA..**

- 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

**Bolt Thread (A):**

SMB18AFA = 3/8 - 16 × 2 in
SMB18AFAM10 = M10 - 1.5 × 50



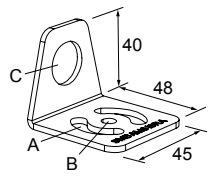


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**SMBAMS18RA**

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

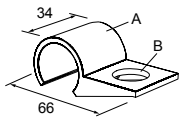
**Hole center spacing:** A = 26.0, A to B = 13.0
**Hole size:** A = 26.8 × 7.0, B = ø 6.5, C = ø 19.0




**SMBC18**

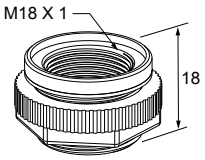
- 18 mm sensor mounting hole
- Snaps onto 28 mm diameter structural framing

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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