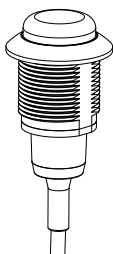


Datasheet

DC-Operated LED Indicators with One, Two, or Three Colors



- Up to three independent colors in one unit
- Translucent face appears gray when off to avoid false indication
- M12 Euro connector models available for plug and play indication
- Wide 180° field of view
- Wide 10 to 30 V dc operating range allows for use in battery powered mobile applications
- Available with PNP or NPN input, depending on model
- IP69K rated to withstand harsh wash-down environments
- Wide operating range of -40 °C to +50 °C (-40 °F to +122 °F)
- Daylight visible models with a clear cover and more focused light output provide greater visibility in high ambient light conditions

Models

Table 1: Standard Models

Family	Color 1	Color 2	Color 3	Input	Connector
S18L	G	R	Y	P	Q
MODEL KEY	G = Green R = Red Y = Yellow B = Blue W = White O = Orange T = Turquoise V = Violet M = Magenta X = No color in this position			P = PNP N = NPN	Q = 4 pin Euro QD Blank = 2 meter cable QP = Euro Pigtail QD T = 4 screw terminals

Table 2: Daylight Visible Models

Family	Color 1	Color 2	Color 3	Input	Connector
S18DL	G	R	Y	P	Q
MODEL KEY	G = Green R = Red Y = Yellow B = Blue W = White O = Orange X = No color in this position			P = PNP N = NPN	Q = 4 pin Euro QD Blank = 2 meter cable QP = Euro Pigtail QD T = 4 screw terminals

Example Model	Indicators	Input	Connector Type
S18LGRYP	Green, Red, Yellow	PNP	blank = 2 m cable
S18LGXXPQ	Green	PNP/NPN	4-pin Euro QD
S18LGRXPQP	Green, Red	PNP	Euro Pigtail QD
S18LGRYPT	Green, Red, Yellow	PNP	4 screw terminals

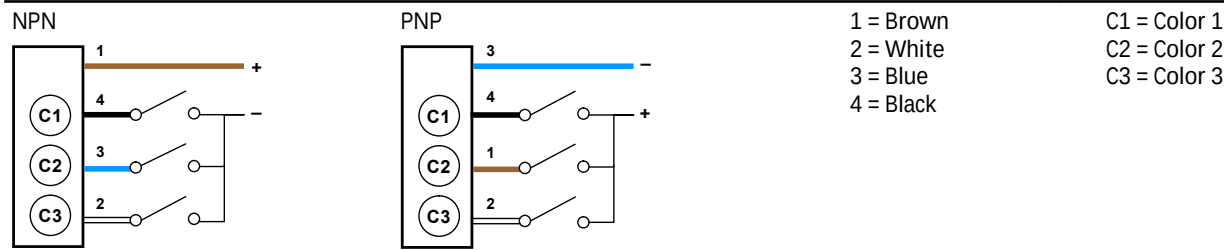


Note: Single color models should be ordered as PNP models but can be wired for either PNP or NPN input.

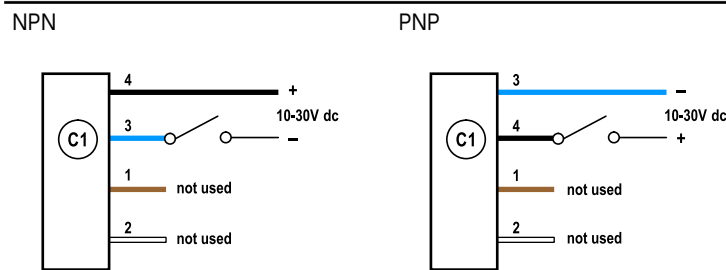


Wiring Diagrams

Multi Color Wiring



Single Color Wiring



Specifications

Supply and Voltage Current

10 to 30 V dc at 25 mA max. per LED color

Indicators

LEDs are independently selected; 1, 2, or 3 colors, depending on model. For other colors/combinations, contact Factory for availability
Standard Models: Entire translucent dome provides even indication viewable from over 180 degrees
Daylight Visible Models: Clear dome and more focused light provides even brighter indication when used in high ambient light areas

Input Response Time

Indicator ON/OFF: 1 ms max

Construction

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

Connections

4-pin Euro-style integral QD (Q), 150 mm (5.9 in) PVC pigtail QD (QP), 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)

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 with a suitable enclosure

Operating Conditions

-40 °C to 50 °C (-40 °F to 122 °F)
Limited to one color on at a time

Required Overcurrent Protection



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

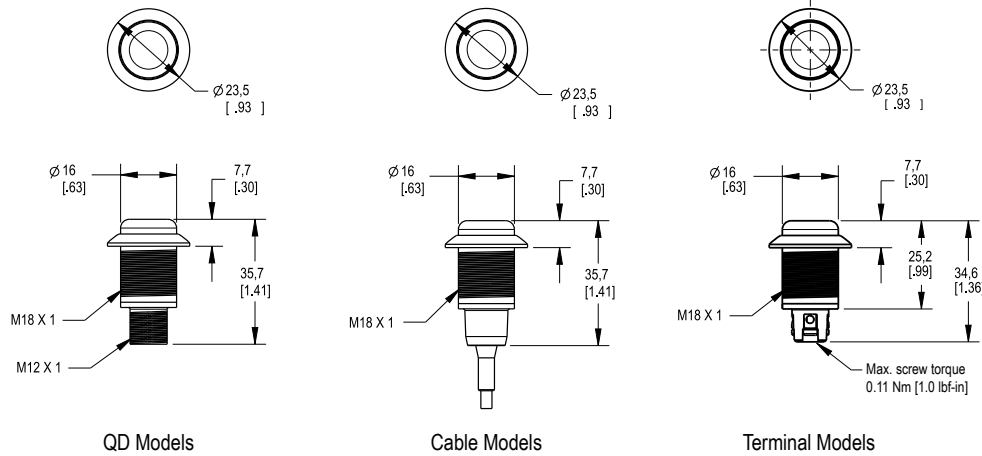
Overcurrent protection is required to be provided by end product application per the supplied table.
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.
Supply wiring leads < 24 AWG shall not be spliced.
For additional product support, go to www.bannerengineering.com.

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



Cordsets

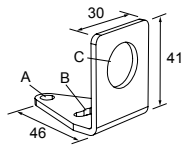
4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout (Female)
MQDC-406	1.83 m (6 ft)	Straight		
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)			
MQDC-450	15.2 m (50 ft)			
MQDC-406RA	1.83 m (6 ft)	Right-Angle		
MQDC-415RA	4.57 m (15 ft)			
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 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

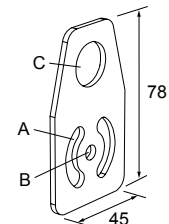


Hole center spacing: A to B = 24.2

Hole size: A = 4.6, B = 17.0 x 4.6, C = 18.5

SMBAMS18P

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

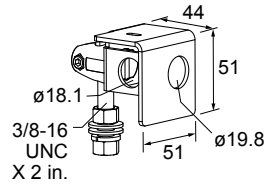


Hole center spacing: A = 26.0, A to B = 13.0

Hole size: A = 26.8 x 7.0, B = 6.5, C = 19.0

SMB18AFA..

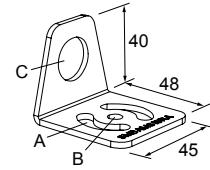
- Protective, swivel bracket with tilt and pan movement for precision adjustment
- Easy sensor mounting to extruded rail T-slots
- Metric and inch size bolts available
- Mounting hole for 18 mm sensors

Hole size: B = $\varnothing$ 18.1

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

SMBAMS18RA

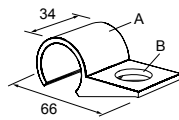
- Right-angle SMBAMS series bracket with 18 mm hole
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



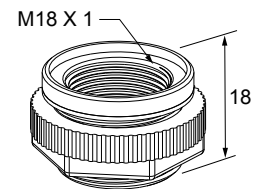
Hole center spacing: A = 26.0, A to B = 13.0
 Hole size: A = 26.8 x 7.0, B = $\varnothing$ 6.5, C = $\varnothing$ 19.0

SMBC18

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

A = $\varnothing$ 26.9 mmHole size: B = $\varnothing$ 18.4**LMB1822FM**

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



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