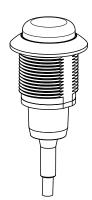
# **EZ-LIGHT® S18L Color General-Purpose Indicators**



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

For the latest technical information about this product, including specifications, dimensions, and wiring, see www.BannerEngineering.com



- 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 30V 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° to +50° C
- 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	Р	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	Р	Q
MODEL KEY	B = Blue		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.

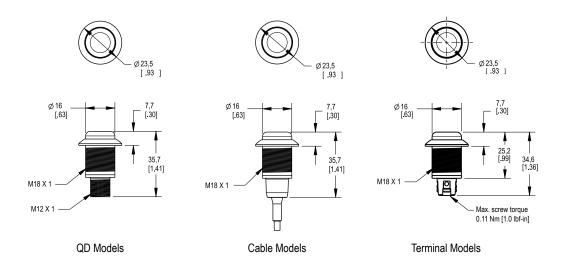
P/N 160690\_web Rev. E 11/8/2012



# WARNING: Not To Be Used for Personnel Protection

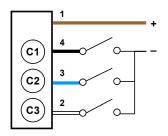
Never use this product as a sensing device for personnel protection. Doing so could lead to serious injury or death. This product does NOT include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

# **Dimensions**

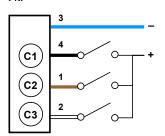


# **Multi Color Wiring**





# PNP



# Wiring Key:

1 = Brown

2 = White

3 = Blue

4 = Black

Color Key:

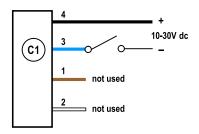
C1 = Color 1

C2 = Color 2

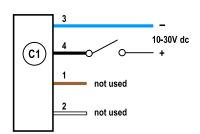
C3 = Color 3

# **Single Color Wiring**

NPN



## PNP



# **Specifications**

# **Supply and Voltage Current**

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

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 14 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

## **Operating Conditions**

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

#### Certifications



# Cordsets

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout
MQDC-406	1.83 m (6 ft)		<del></del>	-2
MQDC-415	4.57 m (15 ft)	Ctusialat		1 (6.9)
MQDC-430	9.14 m (30 ft)	Straight	M12x1	4
MQDC-450	15.2 m (50 ft)	1	ø 14.5 <sup></sup>	1 = Brown
MQDC-406RA	1.83 m (6 ft)		32 Тур.	2 = White 3 = Blue
MQDC-415RA	4.57 m (15 ft)		[1.26"]	4 = Black
MQDC-430RA	9.14 m (30 ft)			
MQDC-450RA	15.2 m (50 ft)	Right-Angle	30 Ťyp. [1.18"]	
			M42 v 4	
			M12 x 1 — — — — — — — — — — — — — — — — — —	

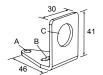
# **Mounting Brackets**

## SMB18A

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

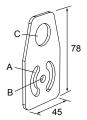
Hole center spacing: A to B = 24.2

**Hole size:**  $A = \emptyset 4.6$ ,  $B = 17.0 \times 4.6$ ,  $C = \emptyset 18.5$ 



## SMBAMS18P

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

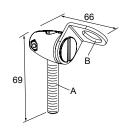


Hole center spacing: A = 26.0, A to B = 13.0Hole size: A = 26.8 x 7.0, B = Ø 6.5, C = Ø 19.0

#### SMB18AFA..

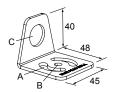
- · Protective, swivel bracket with tilt and pan movement for precision adjustment
- · Easy sensor mounting to extruded rail T-slots
- · Metric and inch size bolts availa-
- · Mounting hole for 18 mm sensors

<b>Hole size:</b> B = Ø 18.1				
Model	Bolt Thread (A)			
SMB18AFA	3/8 - 16 x 2"			
SMB18AFAM10	M10 - 1.5 x 50			



#### SMBAMS18RA

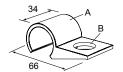
- · Right-angle SMBAMS series bracket with 18 mm hole for mounting sensors
- · Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



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

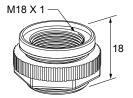
### SMBC18

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



#### LMB1822FM

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



 $A = \emptyset 26.9 \text{ mm}$ 

Hole size: B = Ø 18.4

# Banner Engineering Corp Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

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