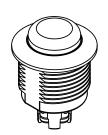
# EZ-LIGHT® S22L General Purpose Indicators



# 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
S22L	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

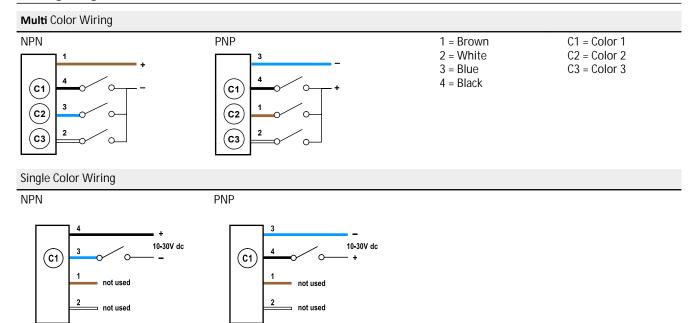
Family	Color 1	Color 2	Color 3	Input	Connector
S22DL	G	R	Y	Р	Q
MODEL KEY	G = Green R = Red Y = Yellow B = Blue W = White O = Orange X = No color in this position			P = PNP N = NPN	Q = 4 pin Euro QD Blank = 2 meter cable QP = Euro Pigtail QD T = 4 screw terminals

Example Model	Indicators	Input	Connector Type
S22LGRYP	Green, Red, Yellow	PNP	2 m cable
S22LGXXPQ	Green	PNP/NPN	4-pin Euro QD
S22LGRXPQP	Green, Red	PNP	Euro Pigtail QD
S22LGRYPT	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



### **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 highpressure 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.

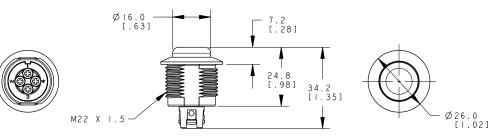
For additional product support, go to www.bannerengineering.com.

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

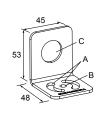
4-Pin Threaded M12/Euro-Style Cordsets					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC-406	1.83 m (6 ft)		<b>→</b> 44 Typ. →		
MQDC-415	4.57 m (15 ft)	Straight			
MQDC-430	9.14 m (30 ft)				
MQDC-450	15.2 m (50 ft)		m12 x 1 → ø 14.5 →	$1 - \frac{2}{2}$	
MQDC-406RA	1.83 m (6 ft)		, 32 Тур.	4-0-3	
MQDC-415RA	4.57 m (15 ft)	Right-Angle	[1.26"]		
MQDC-430RA	9.14 m (30 ft)		Sector State	1 = Brown 2 = White	
MQDC-450RA	15.2 m (50 ft)		M12 x 1 Ø 14.5 [0.57"]	3 = Blue 4 = Black	

## Brackets

All measurements are listed in millimeters, unless noted otherwise. SMB22A • Right-angle bracket with curved slot for versatile orientation • 12-ga. stainless steel • Mounting hole for 22 mm sensor Hole center spacing: A to B = 26.0 Hole size: A = $\emptyset$ 4.6, B = 4.6 x 16.9, C = 22.2	<ul> <li>SMB22FVK</li> <li>V-clamp, flat bracket and fasteners for mounting to pipe or extensions</li> <li>Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions</li> <li>22 mm hole for mounting sensor</li> <li>Hole size: A = ø 22.5</li> </ul>
<ul> <li>SMB22RAVK <ul> <li>V-clamp, right-angle bracket and fasteners for mounting to pipe or extensions</li> <li>Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions</li> <li>22 mm hole for mounting sensor</li> </ul> </li> <li>Hole size: A = ø 22.5</li> </ul>	<ul> <li>SMBAMS22P <ul> <li>Flat SMBAMS series bracket with 22 mm hole for mounting sensors</li> <li>Articulation slots for 90+° rotation</li> <li>12-ga. (2.6 mm) cold-rolled steel</li> </ul> </li> <li>Hole center spacing: A = 26.0, A to B = 13.0</li> <li>Hole size: A = 26.8 x 7.0, B = ø 6.5, C = ø 22.5</li> </ul>

#### SMBAMS22RA

- Right-angle SMBAMS series bracket with 22 mm hole for mounting sensors Articulation slots for 90+° rotation ٠
- 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 22.5

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