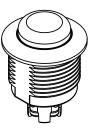
EZ-LIGHT® S22L General Purpose Indicators



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 V dc 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 providegreater visibility in high ambient light conditions

Models

Table 1: Standard Models

Family	Color 1	Color 2	Color 3	Input	Connector
S22L	G	R	Υ	Р	Q
MODEL KEY	G = Green R = Red Y = Yellow B = Blue W = White		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	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
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

Multi Color Wiring

NPN (C1 (C2

PNP (C1 (C2) (сз

1 = Brown C1 = Color 1 2 = White C2 = Color 23 = BlueC3 = Color 3

4 = Black 5 = Gray

Gray Wire not used in K30 Terminal models

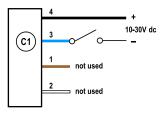


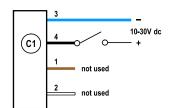
Original Document 171439 Rev. D

Single Color Wiring

NPN

PNP





Specifications

Supply Voltage and Current
10 V DC 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

Indicator Response Time Indicator ON/OFF: 1 ms max

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color	Color Coordinates ¹		Lumen Output (Typical at 25 °C)	
	Temperature (CCT)	X	Y		
	S22L & S22DL	S22L Onl	у	S22L	S22DL
Green	520-535 nm	-	-	4.1	2.3
Red	620-630 nm	-	-	1.1	1.4
Yellow	585-595 nm	-	-	0.8	1.2
Blue	465-475 nm	-	-	0.6	0.6
Orange	600-615 nm	-	-	4.0	4.0
White	5665-9000 K	-	-	0.8	0.9
Turquoise	_	0.19	0.34	2.4	NA ²
Violet	-	0.21	0.11	0.5	NA ²
Magenta	_	0.35	0.15	0.5	NA ²

Environmental Rating

Nation Indiana Hating
Rated IEC IP67, and IP69K per DIN 40050-9. Cabled models meet DIN
IP69K if the cable is protected from high-pressure spray. Indicator side of
terminal models meet IEC IP67, and IP69K per DIN 40050-9 when installed
in an enclosure. Screw connection points meet IEC IP00.
Meets UL Type 4X and UL Type 13 when mounted in a UL Type 4X or Type

13 enclosure.

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

Construction

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

Nitrile sealing washer

Connections

Integral 4-pin M12/Euro-style male quick disconnect, 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)

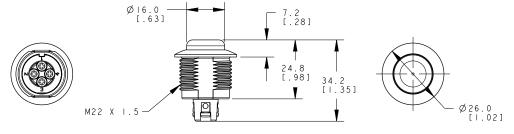
Operating Conditions
-40 °C to +50 °C (-40 °F to +122 °F)
Limited to one color on at a time

Certifications





Dimensions



Refer to CIE 1931 chromaticity diagram or color chart, to show equivalent color with indicated color coordinates.

2 Colors not available in this model.

Cordsets

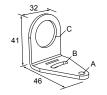
4-Pin Threaded M12/Euro-Style Cordsets—Single Ended						
Model	Length	Style	Dimensions	Pinout (Female)		
MQDC-406	1.83 m (6 ft)		 			
MQDC-415	4.57 m (15 ft)		44 тур.	1 = Brown 2 = White 3 = Blue 4 = Black		
MQDC-430	9.14 m (30 ft)	Straight	Straight			
MQDC-450	15.2 m (50 ft)	Ü	M12 x 1			
MQDC-406RA	1.83 m (6 ft)		20 T			
MQDC-415RA	4.57 m (15 ft)		32 Typ. 			
MQDC-430RA	9.14 m (30 ft)					
MQDC-450RA	15.2 m (50 ft)	Right-Angle	M12 x 1			

Brackets

All measurements are listed in millimeters, unless noted otherwise.

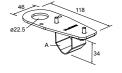
SMB22A

- Right-angle bracket with curved slot for versatile orientation 12-ga. stainless steel Mounting hole for 22 mm sensor



SMB22FVK

- V-clamp, flat bracket and fasteners for mounting to pipe or extensions Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions 22 mm hole for mounting sensor

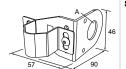


Hole size: A = Ø 22.5

Hole center spacing: A to B = 26.0Hole size: A = \emptyset 4.6, B = 4.6 x 16.9, C = 22.2

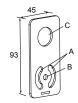
SMB22RAVK

- V-clamp, right-angle bracket and fasteners for mounting to pipe or extensions Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions 22 mm hole for mounting sensor



SMBAMS22P

- Flat SMBAMS series bracket with 22 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 22.5

SMBAMS22RA

Hole size: $A = \emptyset \ 22.5$

- Right-angle SMBAMS series bracket with 22 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:** $A = 26.8 \times 7.0$, $B = \emptyset 6.5$, $C = \emptyset 22.5$

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