# 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	O = Orange			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	Υ	Р	Q
MODEL KEY	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

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

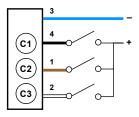
NPN

(C1

C2

# •

#### PNP



1 = Brown

C1 = Color 1

2 = White

C2 = Color 2

3 = Blue

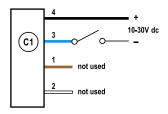
C3 = Color 3

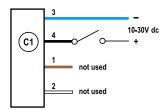
4 = Black

#### Single Color Wiring

NPN

PNP





# 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

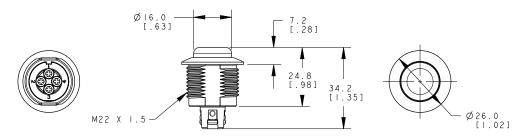
-40 °C to 50 °C (-40 °F to 122 °F)

Limited to one color on at a time

#### Certifications



#### **Dimensions**



### Cordsets

4-Pin Threaded M12/Euro-Style Cordsets				
Model	Length	Style	Dimensions	Pinout
MQDC-406	1.83 m (6 ft)		<del></del>	1 = Brown 2 = White 3 = Blue 4 = Black
MQDC-415	4.57 m (15 ft)			
MQDC-430	9.14 m (30 ft)	Straight		
MQDC-450	15.2 m (50 ft)		M12 x 1 — ø 14.5 —	
MQDC-406RA	1.83 m (6 ft)		22 Tue	
MQDC-415RA	4.57 m (15 ft)		32 Typ. [1.26"]	
MQDC-430RA	9.14 m (30 ft)		, TIET	
MQDC-450RA	15.2 m (50 ft)	Right-Angle	30 Typ. [1.18"]  M12 x 1  Ø 14.5 [0.57"]	

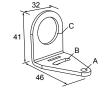
# Brackets

All measurements are listed in millimeters.

#### SMB22A

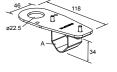
- Right-angle bracket with curved slot for versatile orientation
- 12-ga. stainless steel
- Mounting hole for 22 mm sensor

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



#### 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

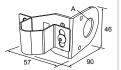


Hole size:  $A = \emptyset 22.5$ 

#### SMB22RAVK

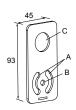
- V-clamp, right-angle bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions
- 22 mm hole for mounting sensor





#### 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

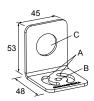


Hole center spacing: A = 26.0, A to B = 13.0

Hole size:  $A = 26.8 \times 7.0$ ,  $B = \emptyset 6.5$ ,  $C = \emptyset 22.5$ 

#### SMBAMS22RA

- 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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