

more sensors, more solutions

EZ-LIGHT[™] Traffic Light

Indicators for signaling applications

Features



- Preassembled indicators for signaling and traffic control
- Intense levels of light output for outdoor applications
- Sun shield included
- Controlled field of view for signage and narrow lane use
- Rugged, cost-effective and easy-to-install
- Compact devices are completely self-contained no controller
- One, two or three indicators
- Immune to EMI and RFI interference
- Choose NPN or PNP input, depending on model
- Choose 15 to 30V dc or 85-130V ac operation

Models

Models*	Indicators	LED Function**	Inputs	Construction	Connection
SP150GPQ		1 Color: Green	PNP/ NPN selectable	Flat or DIN-mount polycarbonate	4-pin Euro Integral QD
SP150RPQ		1 Color: Red			
SP150GRYPQ		3 Color: Green, Red, Yellow	PNP		
SP150GRYNQ		5 Color. Green, Red, Tellow	NPN		
SP150GA120		1 Color: Green	85 to 130V ac		Field-wired
SP150RA120		1 Color: Red			
SP250GRPQ		Top indicator: Red	PNP	Flat mount polycarbonate	4-pin Euro Integral QD
SP250GRNQ	2		NPN		
SP250GRA120		Bottom indicator: Green	85 to 130V ac		Field-wired
SP350GYRPQ		Top indicator: Red Middle indicator: Yellow	PNP		4-pin Euro Integral QD
SP350GYRNQ	3		NPN		
SP350GYRA120		Bottom indicator: Green	85 to 130V ac		Field-wired

* For DC models, standard 4-pin Euro integral QD models are listed. AC models are field-wired only.

- For field-wired model, omit suffix Q from model number (example, "SP150GP")
- A model with a QD requires a mating cable (see *Quick-Disconnect (QD) Cordsets* on page 7)
- ** **1-color models:** 18 LEDs per color
- 3-color models: 6 LEDs per color

Contact factory for other colors and color combinations.

Specifications

Feature	Description			
Supply Voltage and Current	DC models: 15 to 30V dc	AC models: 85 to 130V ac or 75 to		
Current	1-Color: @ 120 mA max. per LED color	120V dc @ 16 mA per LED color		
	3-Color: @ 40 mA max. per LED color			
Indicators	LED colors are independently selected, depending on model			
Input Response Time	Indicator ON/OFF: 10 ms (max.)			
Environmental Rating	Fully encapsulated;			
(See note 1)	Electronics : IEC IP67			
	Enclosure :			
	• SP150: IEC IP67			
	• SP250: IEC IP65			
	• SP350: IEC IP65			
Connections	Integral 4-pin Euro-style QD or field-wired model available for use with bulk cable (wire nuts included); ½-14 NPSM cord grip is optional for SP150 and SP250 models. Cord grip handles cable diameters from 4.3 to 11.4 mm (see model BWA-CG.5-1).			
Operating Conditions	-40° to +50° C (-40° to +122° F)			
Application Notes	1. Field-wired models must have cover screws tightened and use water tight compression fitting to meet environmental ratings.			

Percent of Maximum Intensity vs Viewing Angle



X: Viewing Angle (Deg) Y: Intensity (Percent)



PNP Hookups - QD Models

PNP Hookups - Field-Wired Models





NPN Hookups - QD Models

NPN Hookups - Field-Wired Models



AC Hookups



Dimensions - SP150...Models*



* Field-wired models have 1/2" NPT port in place of M12 connector



Dimensions - SP250...Models*

* Field-wired models have 1/2" NPT port in place of M12 connector



* Field-wired models have access hole for $\ensuremath{\mathcal{V}}_2$ " conduit fitting in place of M12 connector

** Mounting kit SMBSP350 included

Quick-Disconnect (QD) Cordsets

4-Pin Euro-Style Cables – Single-Ended				
Style	Model	Length	Dimensions	Pinout
4-pin Euro-style straight	MQDC-406 MQDC-415 MQDC-430	2 m (6.5') 5 m (15') 9 m (30')	44 mm max. (1.7")	

4-Pin Euro-Style Cables – Single-Ended				
Style	Model	Length	Dimensions	Pinout
4-pin Euro-style Right-angle	MQDC-406RA MQDC-415RA MQDC-430RA	2 m (6.5') 5 m (15') 9 m (30')	38 mm max. (1.5") 38 mm max. (1.5") 38 mm max. (1.5") 38 mm max. (1.5")	1 = Brown 2 = White 3 = Blue 4 = Black

Mounting Brackets

Model		Features	Mounting System	
Stainless Steel	Aluminum	• Elevated-use stand-off pipe (1/2"		
SOP-E12-150SS Length: 150 mm (6") SOP-E12-300SS Length: 300 mm (12")	SOP-E12-150A Length: 150 mm (6") SOP-E12-300A Length: 300 mm (12")	 NPSM/DN15) Polished 304 stainless steel or anodized aluminum surface ½ NPT thread at both ends Compatible with most industrial environments 		
SA-E12M30		 Streamlined acetal mounting base adapter/cover Connects between ½" NPSM/DN15 pipe and 30 mm (1-3/16") drilled hole Mounting hardware included 		



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. Consult your Banner Safety Products catalog for safety products that meet OSHA, ANSI and IEC standards for personnel protection.



Warranty: Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture found to be defective at the time it is returned to the factory during the warranty period. This warranty does not cover damage or liability for the improper application of Banner products. This warranty is in lieu of any other warranty either expressed or implied.

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