

# **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 needed
- · 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			
SP150RPQ		1 Color: Red	selectable	Flat or DIN-mount polycarbonate	4-pin Euro Integral QD
SP150GRYPQ	1	3 Color: Green, Red, Yellow	PNP		
SP150GRYNQ	'	5 Color. Green, Itea, Tellow	NPN		
SP150GA120		1 Color: Green	85 to 130V ac		Field-wired
SP150RA120		1 Color: Red	03 to 130V ac		
SP250GRPQ		Top indicator: Red Bottom indicator: Green	PNP	Flat mount polycarbonate	4-pin Euro Integral QD
SP250GRNQ	2		NPN		
SP250GRA120			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

<sup>\*</sup> For DC models, standard 4-pin Euro integral QD models are listed. AC models are field-wired only.

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P/N 148879 rev. C 4/2010

- 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)

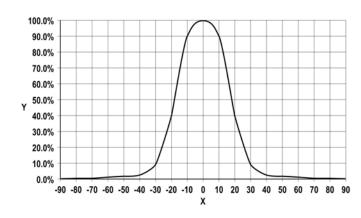
\*\* **1-color models:** 18 LEDs per color **3-color models:** 6 LEDs per color

Contact factory for other colors and color combinations.

## **Specifications**

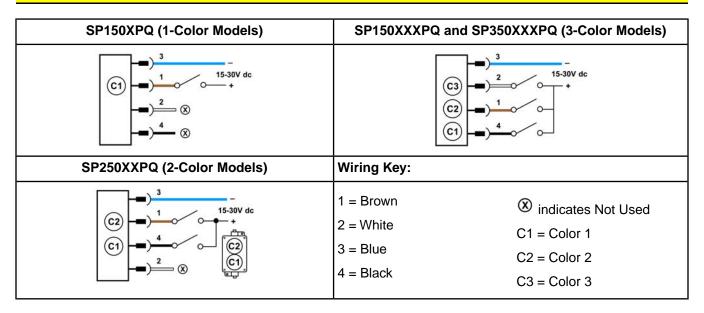
Feature	Description			
Supply Voltage and	<b>DC models</b> : 15 to 30V dc <b>AC models</b> : 85 to 130V ac or 75 to			
Current	1-Color: @ 120 mA max. per LED color	120V dc @ 16 mA per LED color		
	3-Color: @ 40 mA max. per LED color			
Indicators	LED colors are independently selected, depending on model			
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**

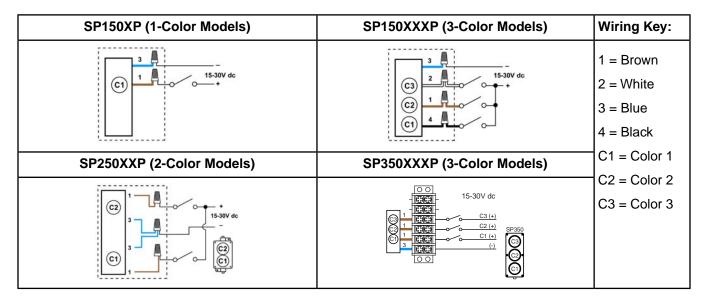


X: Viewing Angle (Deg)
Y: Intensity (Percent)

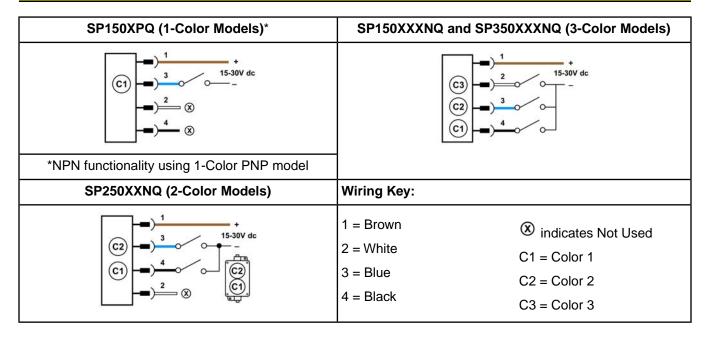
## **PNP Hookups - QD Models**



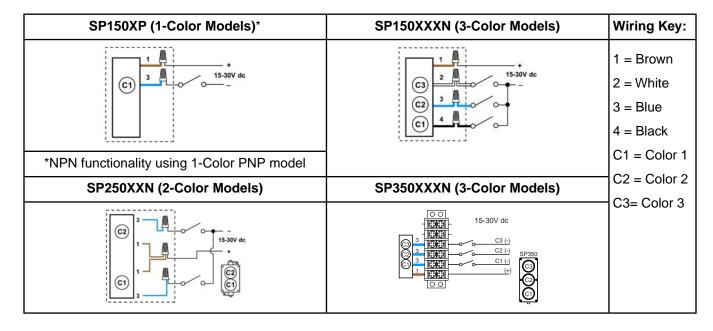
## **PNP Hookups - Field-Wired Models**



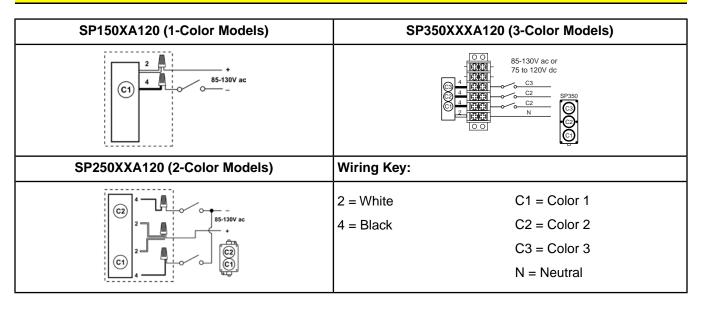
## **NPN Hookups - QD Models**



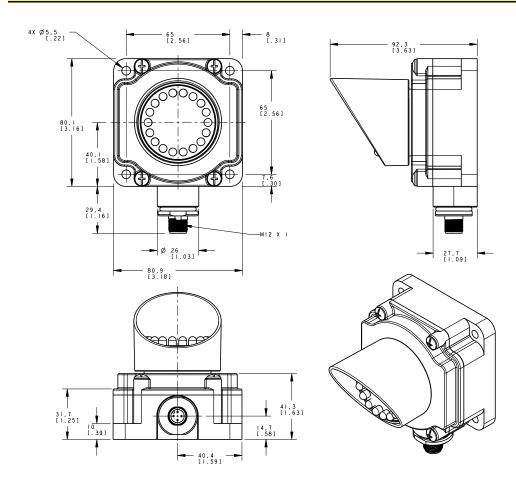
### **NPN Hookups - Field-Wired Models**



## **AC Hookups**

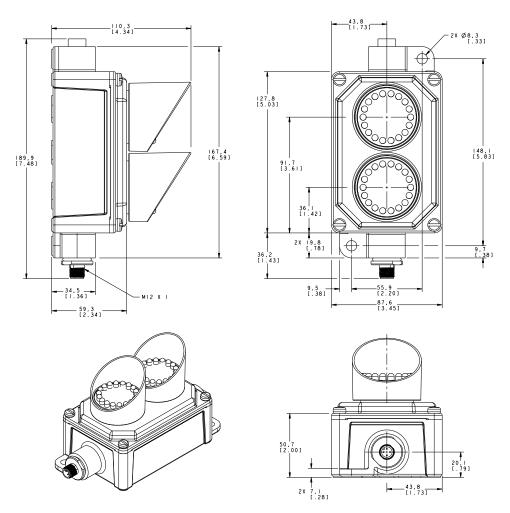


### **Dimensions - SP150...Models\***



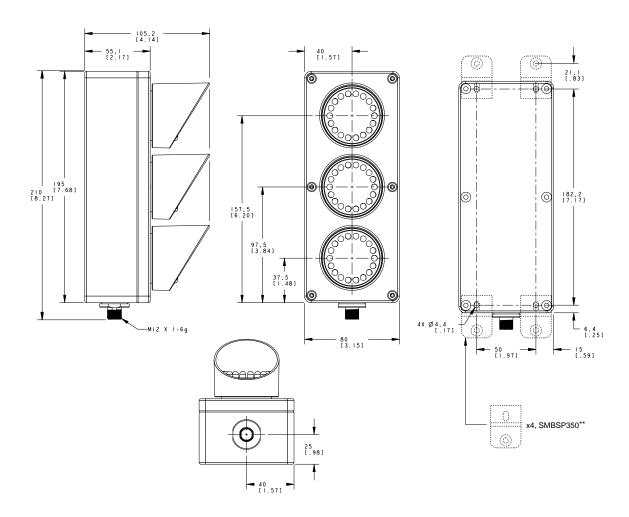
<sup>\*</sup> Field-wired models have 1/2" NPT port in place of M12 connector

## **Dimensions - SP250...Models\***



\* Field-wired models have  $\frac{1}{2}$ " NPT port in place of M12 connector

## **Dimensions - SP350...Models\***



<sup>\*</sup> Field-wired models have access hole for ½" 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')	Ø 15 mm (0.6")  44 mm max. (1.7")	1 2 2 4 3 3	

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")	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		<ul> <li>Streamlined acetal mounting base adapter/cover</li> <li>Connects between ½" NPSM/DN15 pipe and 30 mm (1-3/16") drilled hole</li> <li>Mounting hardware included</li> </ul>		



#### **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.

