EZ-LIGHT® SP Series Signal Light



Datasheet

Preassembled Indicators for Signaling Applications

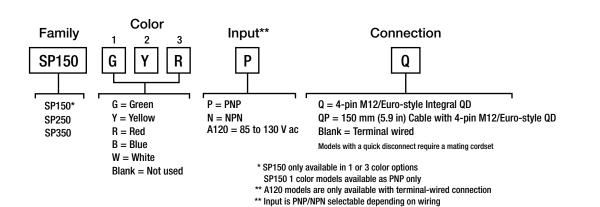
- Intense levels of light output for outdoor applications
- Controlled field of view for signage and narrow lane use
- Rugged, cost-effective and easy-to-install
- Compact devices are completely self-contained no controller needed
- Immune to EMI and RFI interface
- NPN or PNP input, and 15 V dc to 30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



WARNING: Not To Be Used for Personnel Protection

Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device 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.

Models

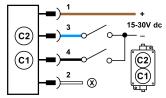


Wiring Diagrams - NPN QD Models

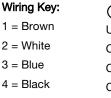




SP250XXNQ (2-Color Models)



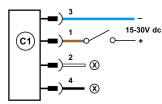
SP350XXXNQ (3-Color Models)



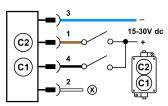
(X) indicates Not Used
C1 = Color 1
C2 = Color 2
C3 = Color 3

Wiring Diagrams - PNP QD Models

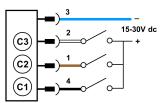
SP150XPQ (1-Color Models)



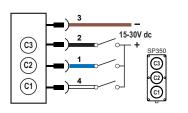
SP250XXPQ (2-Color Models)



SP150XXXPQ (3-Color Models)



SP350XXXPQ (3-Color Models)





1 = Brown 2 = White 3 = Blue 4 = Black

SP150XXXN (3-Color Models)

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(C2) 3

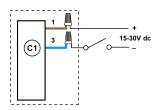
2

(C3)

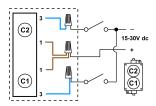


Wiring Diagrams - NPN Terminal-Wired Models

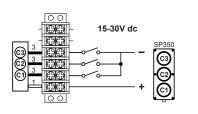
SP150XN (1-Color Models)



SP250XXN (2-Color Models)



SP350XXXN (3-Color Models)



Wiring Key: 1 = Brown

2 = White

3 = Blue

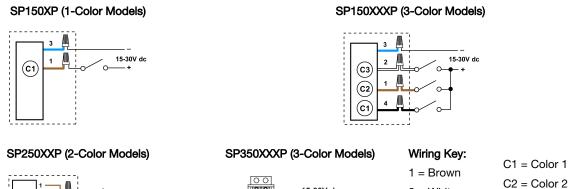
4 = Black

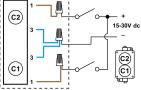
15-30V dc

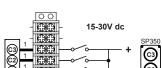
- C2 = Color 2
 - C3 = Color 3

C1 = Color 1

Wiring Diagrams - PNP Terminal-Wired Models







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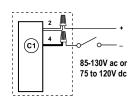
4 = Black

C2 = Color 2

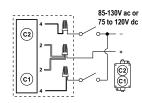
C3 = Color 3

Wiring Diagrams — AC Models

SP150XA120 (1-Color Models)



SP250XXA120 (2-Color Models)

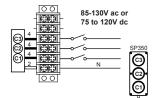


Wiring Key:

2 = White

4 = Black

SP350XXXA120 (3-Color Models)



C1 = Color 1
C2 = Color 2
C3 = Color 3
N = Neutral

P/N 148879 Rev. F

Specifications

Supply Voltage and Current

SP150 DC Models

1-Color: 15 V dc to 30 V dc at 120 mA max. per LED color

3-Color: 15 V dc to 30 V dc at 40 mA max. per LED color

Note: SP150 3-color available as DC model only

SP250/SP350 DC Models

15 V to 30 V dc at 120 mA maximum per LED color

SP150/SP250/SP350 AC Models

85 V ac to 130 V ac or 75 V dc to 120 V dc at 16 mA maxium per LED color

Indicators

LED colors are independently selected, depending on model

Indicator Response Time

Indicator ON/OFF: 10 ms maximum

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Lumen Output (Typical at 25 °C)		
		SP150 (1color), SP250 and SP350 Models	SP150 (3-color) Model	
Green	520-535 nm	57.0	21.0	
Red	618-630 nm	20.0	7.0	
Yellow	584-594 nm	14.0	6.0	
Blue	465-480 nm	12.0	4.5	
White	4600-16000K	20.0	13.0	

Certifications CE

Construction

Polycarbonate

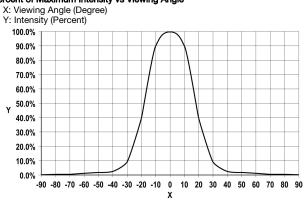
Environmental Rating Fully encapsulated. Terminal-wired models must have cover screws tightened and use watertight compression fitting to meet environmental ratings. Electronics: IEC IP67

SP150 Enclosure: IEC IP67 SP250 Enclosure: IEC IP65 SP350 Enclosure: IEC IP65

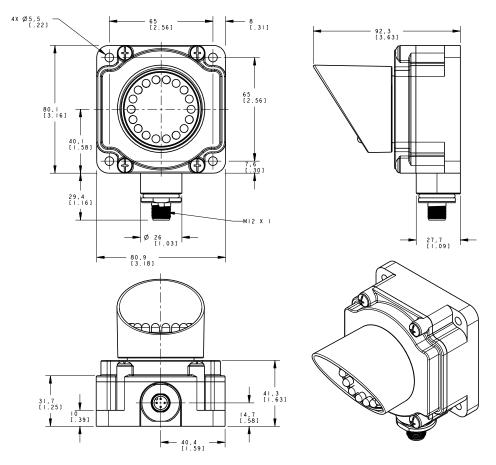
Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F)

Percent of Maximum Intensity vs Viewing Angle

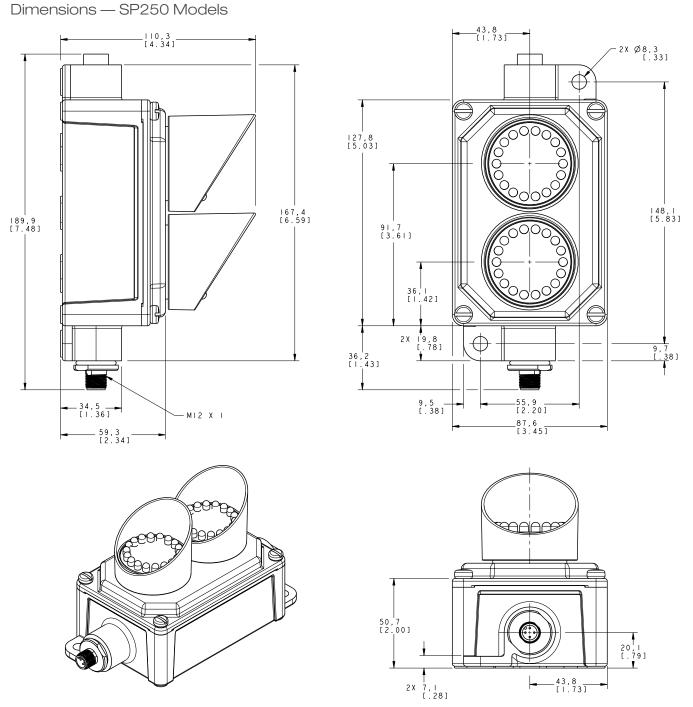


Dimensions - SP150 Models



All measurements are listed in millimeters [inches], unless noted otherwise.

Note: Terminal-wired models have ½ inch NPT port in place of M12/Euro-style connector.

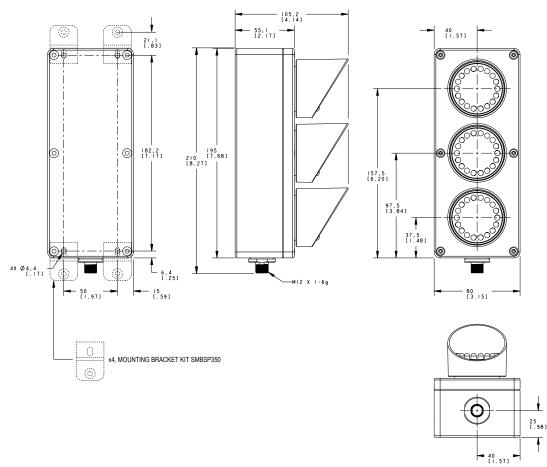


All measurements are listed in millimeters [inches], unless noted otherwise.

Note: Terminal-wired models have 1/2 inch NPT port in place of M12/Euro-style connector.

P/N 148879 Rev. F

Dimensions - SP350 Models



All measurements are listed in millimeters [inches], unless noted otherwise.

Note: Terminal-wired models have access hole for $\frac{1}{2}$ inch conduit fitting in place of M12/Euro-style connector. Mounting kit SMBSP350 included.

Accessories

Brackets

Model			Features	Components
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum	Elevated-use stand-off pipe (1/2 in.	
SOP-E12-150SS 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long	 NPSM/DN15) Polished 304 stainless steel, black anodized aluminum, or clear anodized 	
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	aluminum surface ½ in. NPT thread at both ends 	
SOP-E12-900SS 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long	 Compatible with most industrial environments 	
SA-E12M30 - Black Acetal		Streamlined black acetal or white UHMW	da	
SA-E12M30C - White UHMW			 mounting base adapter/cover Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included 	

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