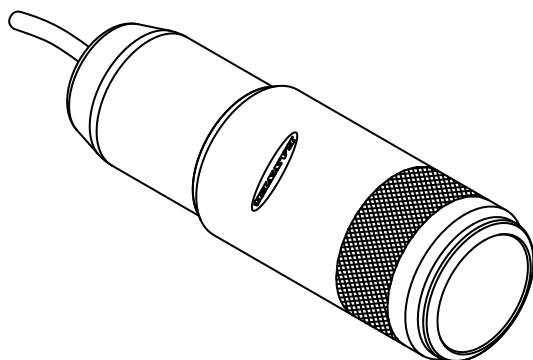# LED..SW Series Spot Lights

LED Spot Lights for Use with PresencePLUS® Pro Sensors

For the latest technical information about this product, including specifications, dimensions, and wiring, see *www.BannerEngineering.com*.

- Low-cost, compact washdown spot lights for *Presence*PLUS® sensors. See Banner's Web site (*www.bannerengineering.com*) for a complete lighting tutorial.
- Continuous or strobed operation is selectable via sensor software.
- Solid-state LED; adjustable spot size (see *Specifications* on page 1).
- Direct connection to *Presence*PLUS Pro sensor or to an external power supply using 3 discrete wires (see *Dimensions* on page 2)
- Standard 1/4 - 20 thread mounting hole, compatible with camera mounting bracket knuckle.

Models

Model	Color	Ambient Light Filter Kit
LEDRSW	Visible Red, 620-630 nm	FLTR
LEDWSW	Cool White, 5500-8300 K	FLTB or FLTG
LEDBSW	Blue, 465-485 nm	FLTB
LEDGSW	Green, 520-535 nm	FLTG

Specifications

Light Source
LED; see Models table for wavelengths

Illumination
High-intensity spot light

Supply Voltage and Current
10-30V dc @ 360 mA max.

Connections
PVC-jacketed 3-conductor 2 m (6.5') attached cable

Construction
Black anodized aluminum, glass lens

Environmental Rating
IEC IP67

Useful Life
50,000 hours (LED ON time). When operated within specification, output will decrease less than 30% after 50,000 hours.

Operating Conditions
-40° to +50° C (-40° to +122° F)
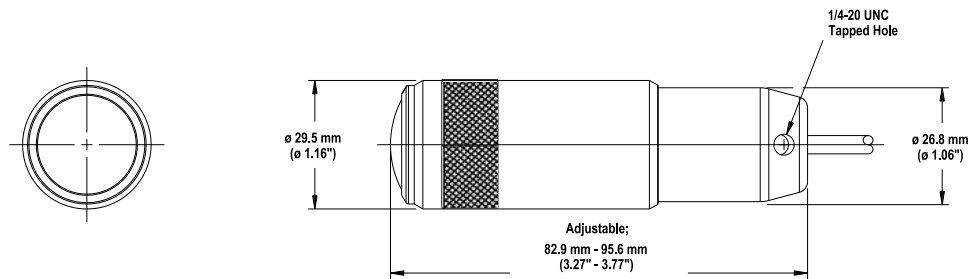90% @ 50° C (non-condensing) max. rel. humidity

Cleaning Instructions
Regularly remove any dust, dirt, or fingerprints from the light source.

1. Blow off dust using anti-static compressed air.
2. If necessary, use a lens cloth and lens cleaner or window cleaner to wipe off remaining debris. Do not use any other chemicals for cleaning.

Spot Size Relative to Distance				
Distance	**152 mm (6")**		**305 mm (12")**	
Spot Size	76.2 mm (3") min.	178 mm (7") max.	127 mm (5") min.	305 mm (12") max.

Dimensions

ø 29.5 mm
(ø 1.16")

ø 26.8 mm
(ø 1.06")

1/4-20 UNC
Tapped Hole

Adjustable;
82.9 mm - 95.6 mm
(3.27" - 3.77")

Installing the Spot Light

NOTE: Before installing this spot light, install an ambient light filter behind the sensor lens. The filter improves image quality by reducing unwanted ambient light.

Sensing Shiny Surfaces: To eliminate direct reflections without using polarizing filters, angle the light approximately 15° (or more) from perpendicular to a shiny surface.

Wiring Table

Spot Light Wire	PresencePLUS Pro Controller Terminal Block	External Power Supply (Strobed)	External Power Supply (Continuous)
Brown	Pin 1 (+V*) Pin 1 (+V*)	+V	+V
Blue	Pin 2 (-V*)	-V	-V
Black/White	Pin 4 (strobe)	+5V dc to 24V dc = OFF 0V dc = ON	-V

* +V = 24V dc ± 10%   -V = dc common

Accessory Mounting Brackets

Spot light's standard 1/4 - 20 thread mounting hole is compatible with camera mounting bracket knuckle.

Model	Description
SMBPPK3	3" Column, Base, and Knuckle Kit
SMBPPK6	6" Column, Base, and Knuckle Kit
SMBPPK	Mounting Bracket Knuckle
SMBPPKB	Mounting Bracket Base

Model	Description
SMBPPKE3	Mounting Bracket Knuckle 3" Extension
SMBPPKE6	Mounting Bracket Knuckle 6" Extension
SMBPPLK	2" Mounting Knuckle Assembly

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