



Project	Catalog #
Distributor	Type
Prepared by	Date



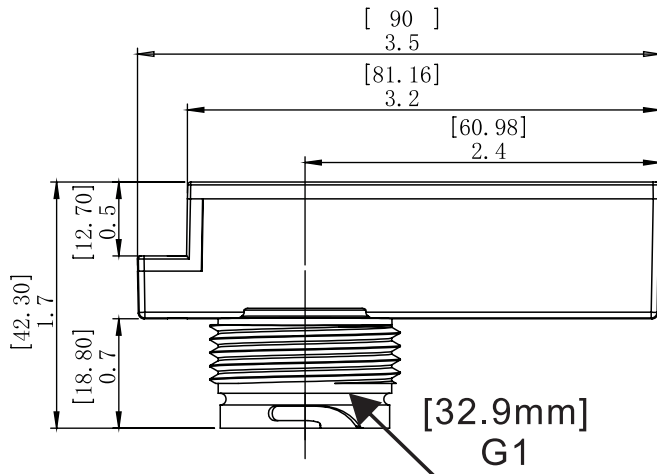
# Line Voltage PIR Outdoor Sensor with DIP Switch

## T1-SS123-PIR-BI-OD

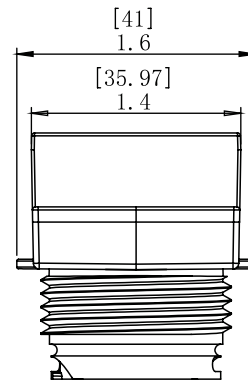
The T1-I-SS123-PIR-BI-OD is a multi-level passive infrared (PIR) motion sensor designed for outdoor (IP65) lighting fixtures. It controls 0-10 VDC LED drivers or dimming as well as non-dimming ballasts. With a Fresnel Lens, it is rated for wet and cold locations. All control parameters are adjustable via DIP Switch or a wireless remote capable of storing and transmitting sensor profiles.

SPECS

<b>Operating Voltage</b>	120/277 VAC, 50Hz/60Hz	<b>High Mode</b>	0-10 V (default 10V)
<b>Maximum Load</b>	Resistive/Halogen - 800W@120V / 1200W@277V Fluorescent Ballast - 660W@120V / 1200W@277V Electronic Ballast (LED/CFL) - 5A@120V / 5A@277V	<b>Low Mode</b>	Off, 0-9.8V (default 1V)
<b>Detection Area</b>	360° Maximum Coverage 60' Diameter from 40' height	<b>Operating Temperature</b>	-40°F~-158°F [-40°C~70°C]
		<b>Humidity</b>	20-90% RH
		<b>IP Rating</b>	IP66 for PIR Lens (top part of the sensor)
		<b>Warranty</b>	Five Year Warranty



Unit:mm/in



DIMENSIONS

# Line Voltage PIR Outdoor Sensor with DIP Switch

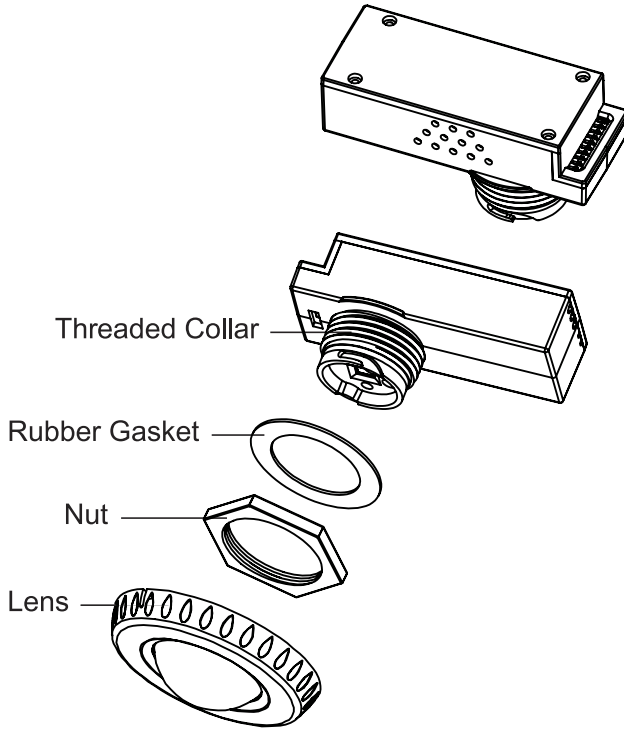
T1-SS123-PIR-BI-OD

**⚠ WARNING**

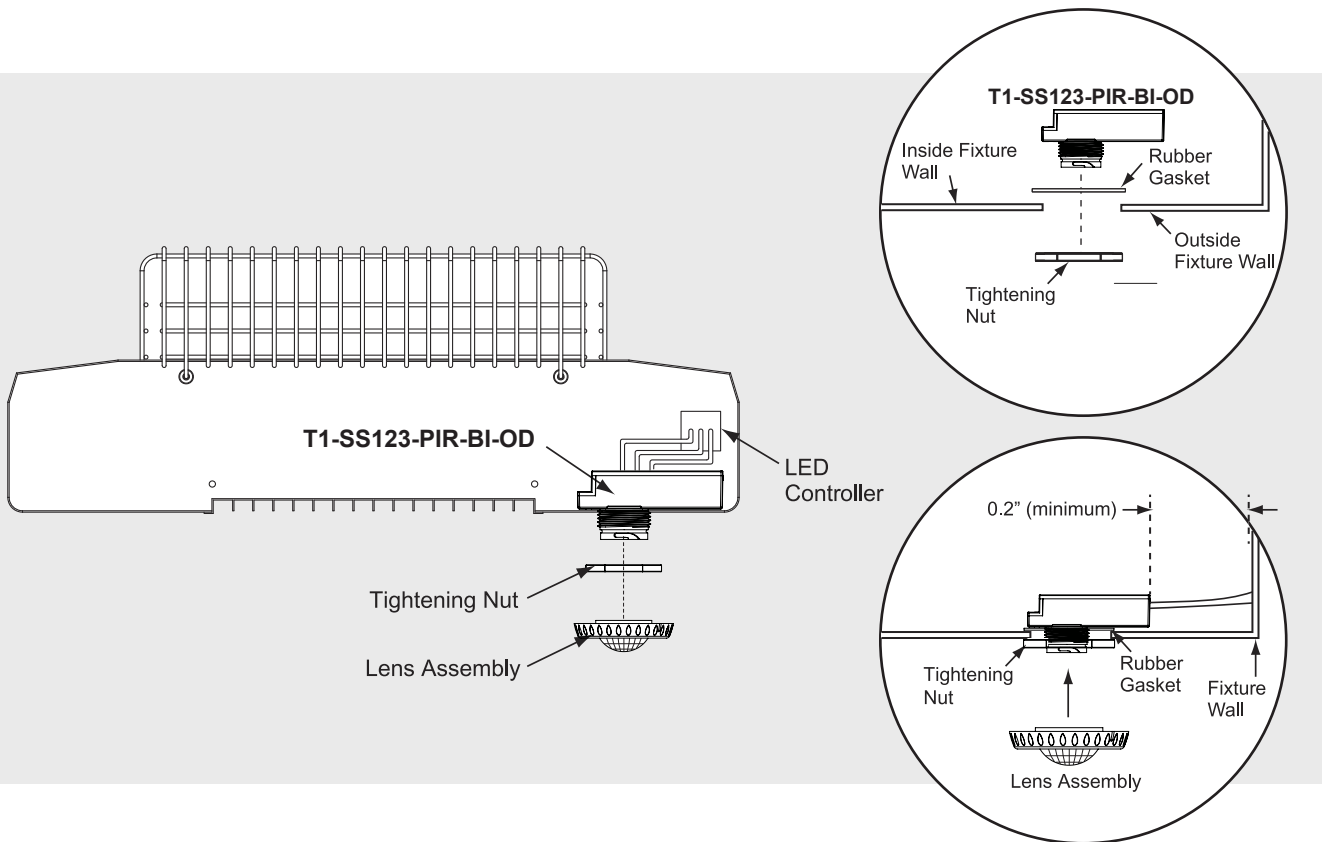
**NOTE:** Warm-up time is 40 seconds the first time. After the sensor connects, the light will turn on for 40 seconds.

**NOTE:** Factory default setting: 100% sensitivity.  
 Hold on time: 10 seconds  
 Daylight sensor: 30lux  
 Dimming level: 30%  
 Dimming time: 60 minutes

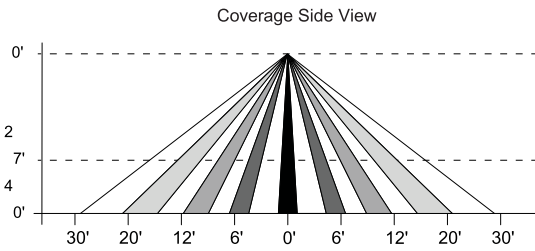
**NOTE:** The LED set light will blink as a confirmation that the setting has been changed on the DIP switch.



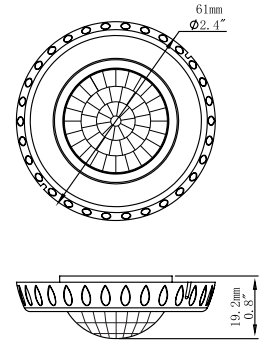
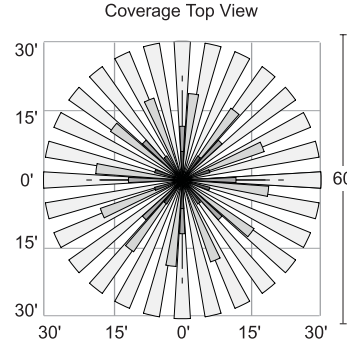
SENSOR MODULE



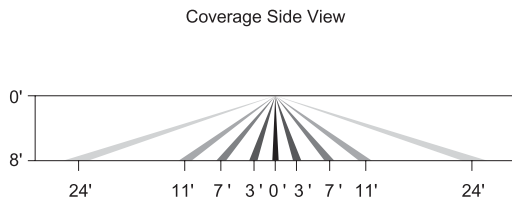
### L3



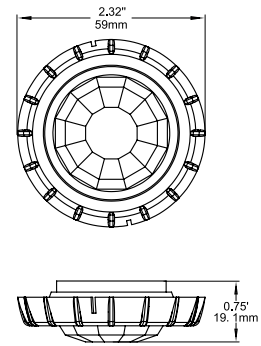
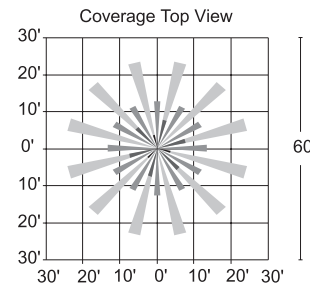
360° Coverage



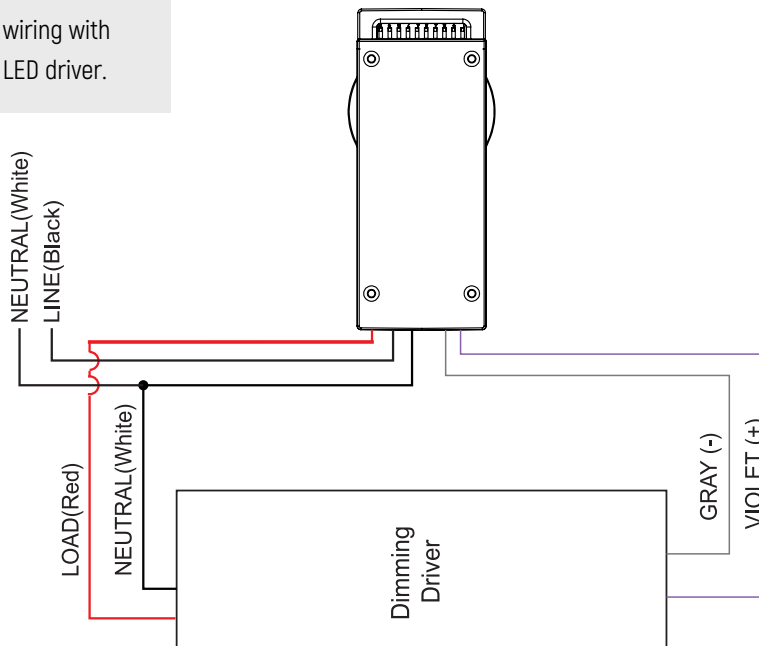
### L4



360° Coverage

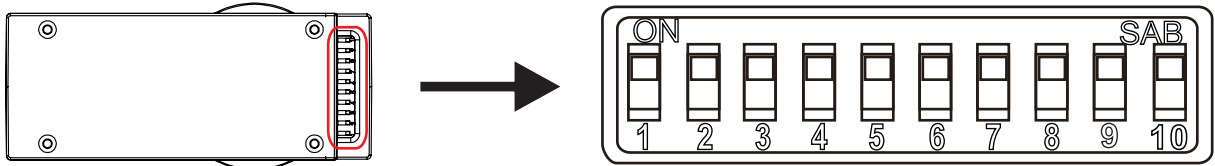


T1-SS123-PIR-BI-OD wiring with dimming ballast or LED driver.



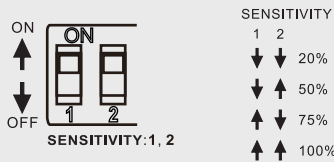
### SHOWN ON THE DIAGRAM:

Use 1, 2 to set detection sensitivity; 3, 4 to set hold-time; 5, 6 to set the light control; 7, 8 to set the stand-by light level; 9, 10 to set the stand-by time



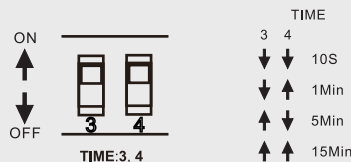
### DETECTION SENSITIVITY SETTING

Detection range is the term used to describe the radius of the detection zone at a height of 40ft. Pull switch to the OFF position as "↓", pull switch to the ON position as "↑". See diagram below to adjust to the desired sensitivity.



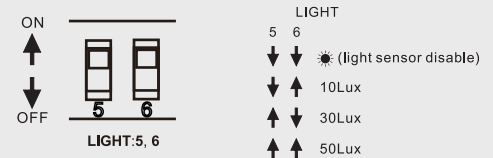
### HOLD-TIME SETTING

The light can be set to stay ON from 10sec to 15min. Any movement detected will restart the timer. Pull switch to the OFF position as "↓", pull switch to the ON position as "↑". See diagram below to adjust to the desired hold time.



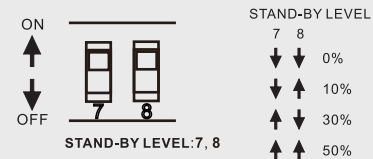
### LIGHT CONTROL SETTING

The light control threshold can be set from 10lux to 50lux. Pull switch to the OFF position as "↓", pull switch to the ON position as "↑". See diagram below to adjust light control.



### STAND-BY LIGHT LEVEL SETTING

See diagram below to adjust to the desired light level.



### STAND-BY TIME SETTING

See diagram below to adjust to the desired stand-by time.



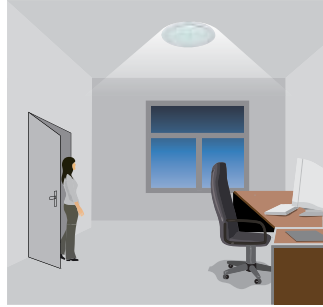
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T1-SS123-PIR-BI-OD

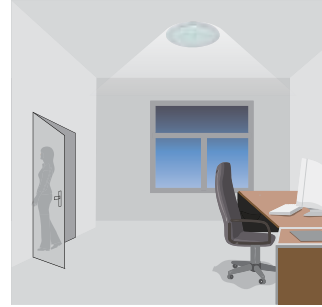
This PIR sensor offers 3 levels of light: 100%-->dimming light (when ambient light is insufficient)-->OFF; and 2 periods of selectable waiting time: motion hold-time and stand-by period. Daylight threshold and detection area are selectable



With sufficient ambient light, the light does not switch ON with the presence of motion.



With insufficient ambient light, the sensor switches the light ON automatically with the presence of motion.



After hold time period has elapsed, the light dims to stand-by level if the surrounding ambient light is below the daylight threshold.



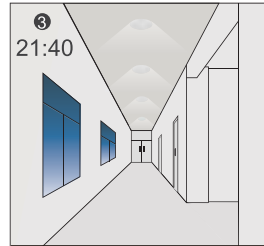
The light switches OFF automatically after the stand-by period has elapsed.



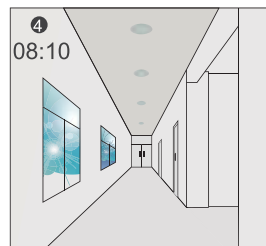
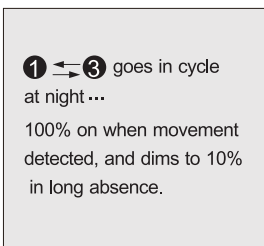
The light switches on at 100% when there is movement detected.



The light dims to stand-by level after the hold-time.



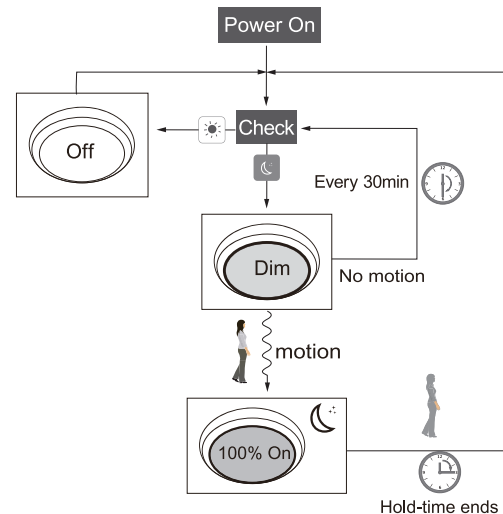
The light remains at dimming level at night.



When the ambient light exceeds set point off to light, the light will turn OFF even when the space is occupied.



The light automatically turns ON at 10% when ambient light is insufficient (no motion).



**\* Settings on this demonstration:**

- Hold-time: 30min
- Setpoint on: 50lux
- Setpoint off: 300lux
- Stand-by Dim: 10%
- Stand-by period: +∞

(When the smart photocell sensor open, the stand-by time is only +∞)