



Project	Catalog #
Distributor	Type
Prepared by	Date



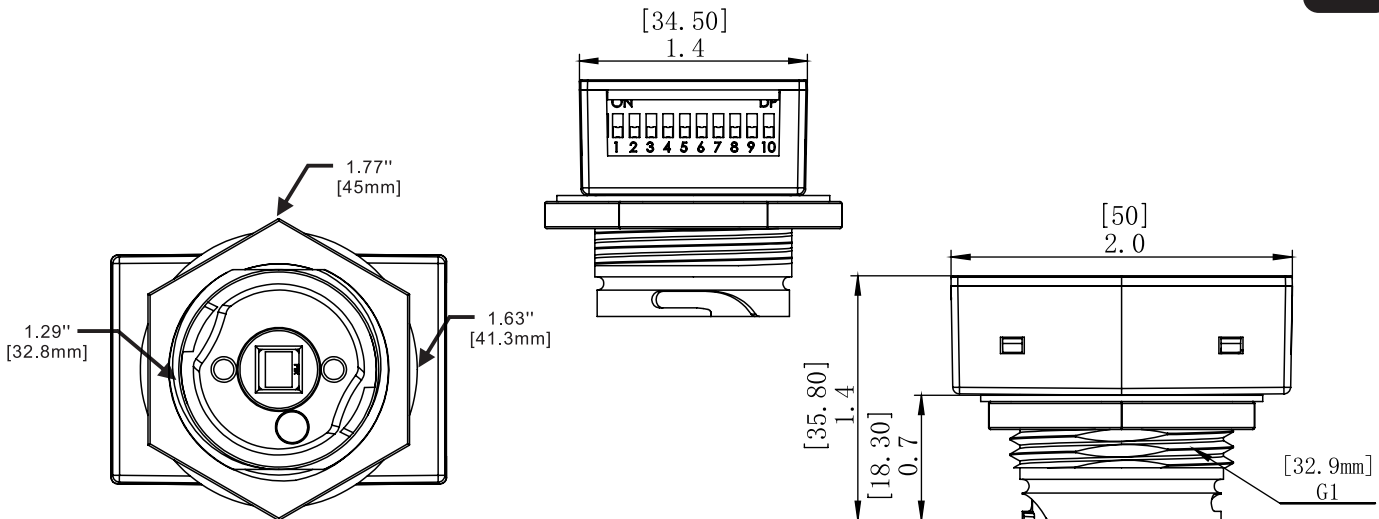
i-Sense Low Voltage Bi-Level PIR Outdoor Sensor

T1-I-SENSE-PIR-BI-12V-OD

The **T1-I-SENSE-PIR-BI-12V-OD** is an outdoor lighting sensor that provides multi-level control based on motion and surrounding ambient light. It controls 0-10VDC LED drivers and dimming ballasts, and 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.

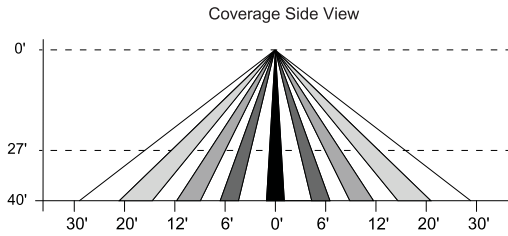
SPECS

Operating Voltage	12-24 VDC	Remote Range	50ft. (15m) indoor no backlight
Dim Control Output	0-10V Max 25mA sinking current	Humidity	Max 95% RH
Detection Radius	30ft. at 40ft.	Temperature	-40°F ~ +167°F [-40°C ~ +75°C]
Detection Angle	360°	Warranty	Five Year Warranty
Mounting Height	Max 40ft. @ L3 Max 24ft. @ L4		

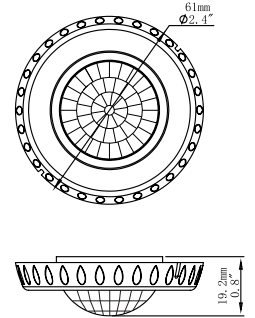
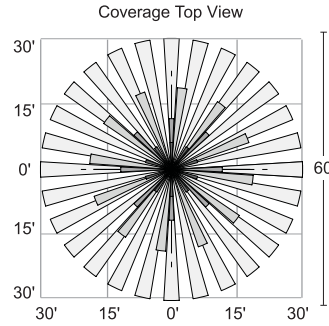


DIMENSIONS

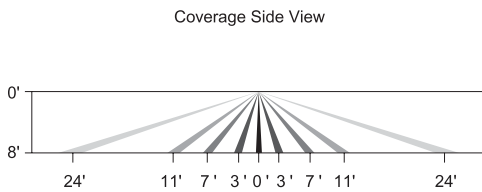
L3



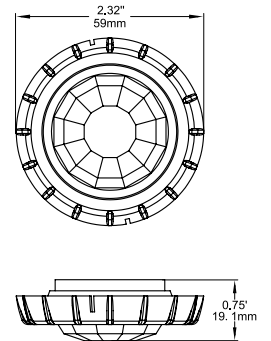
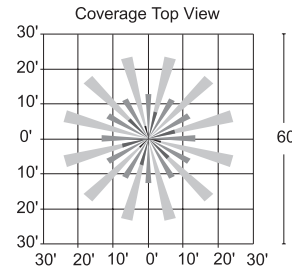
360° Coverage



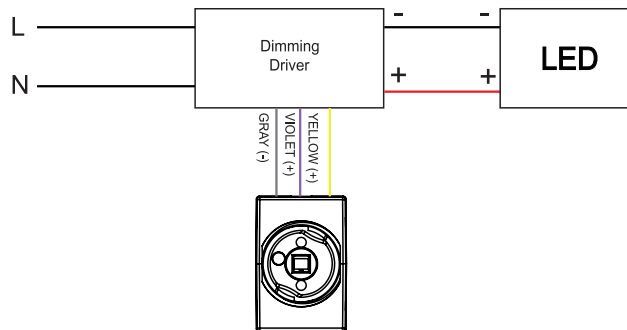
L4



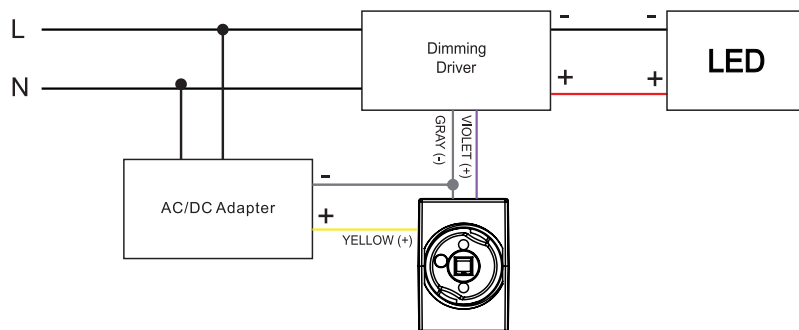
360° Coverage



T1-SENSE-PIR/BI/12V/OD
wiring with 12-24V DC wire
dimming ballast or LED driver.

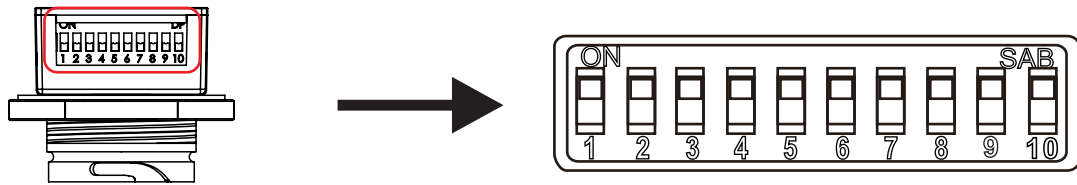


T1-SENSE-PIR/BI/12V/OD
wiring by AC/DC adapter with
dimming ballast or LED driver.



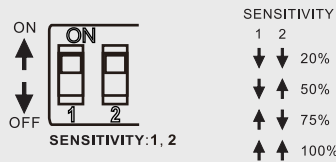
SHOWN ON THE DIAGRAM:

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 standby light level; 9, 10 to set the standby time



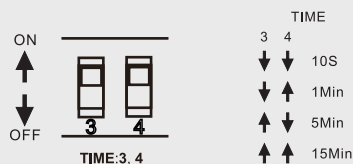
DETECTION SENSITIVITY SETTING

Detection range is the term used to describe the radius of the detection zone at the height of 40ft (L3). Pull switch to the OFF position as "↓", pull switch to the ON position as "↑". See diagram below to adjust to the desired sensitivity.



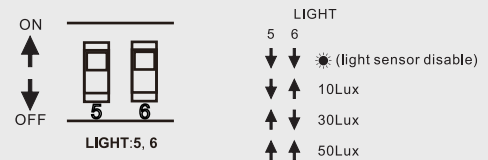
HOLD-TIME SETTING

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.



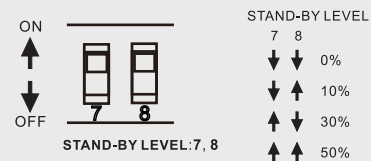
LIGHT CONTROL SETTING

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.



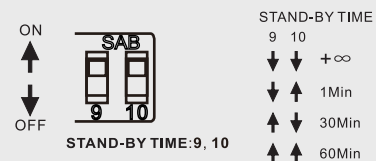
STANDBY LIGHT LEVEL SETTING

See diagram below to adjust to the desired light level.



STANDBY TIME SETTING

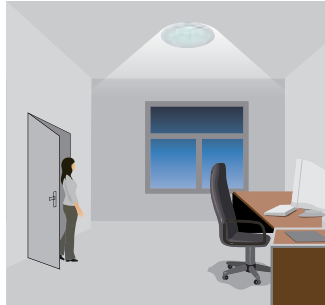
See diagram below to adjust to the desired standby time.



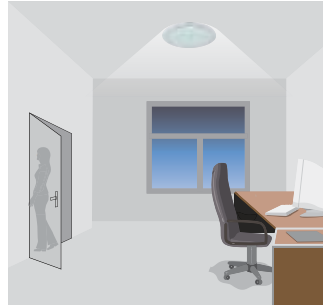
The PIR motion sensor offers 3 levels of light dimming controls: 100%-->dimmed light (natural light is insufficient)-->OFF, and 2 periods of selectable waiting time: motion hold time and stand-by period. Light threshold and detection area are adjustable.



With sufficient ambient light, the light does not switch ON when presence is detected.



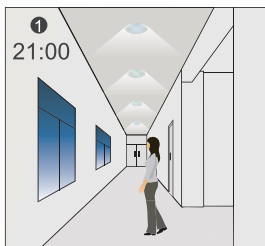
With insufficient ambient light, the sensor switches ON the light automatically when presence is detected.



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



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



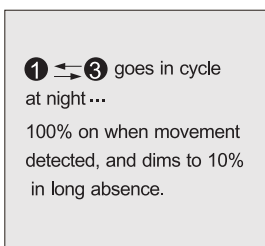
The light switches on at 100% when there is movement detected.



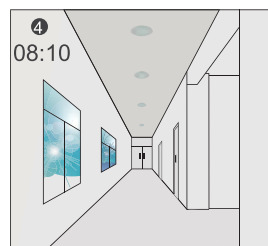
The light dims to stand-by level after the hold time.



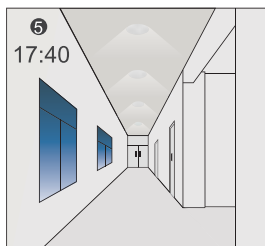
The light remains at dimming level at night.



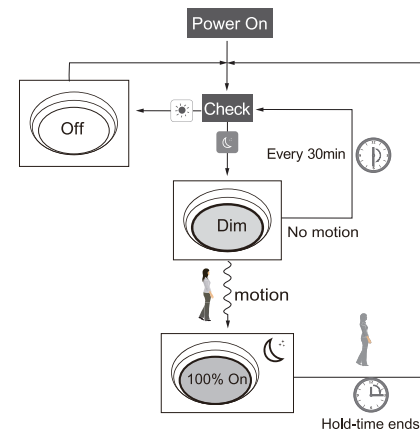
① ↔ ③ goes in cycle at night...
100% on when movement detected, and dims to 10% in long absence.



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



The light automatically turns on at 10% when the ambient light is insufficient [no motion].



Settings on this demonstration:

Hold-time: 10min
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 +∞)

Difference between Corridor Function and Smart Photocell Function

- In Corridor Function, the daylight sensor acts as threshold to assist motion sensor. In Photocell Function, the daylight sensor works independently to motion sensor.
- Turn On light by detect motion when natural light is insufficient for corridor function, turn on light by ambient light level exceeds setpoint on to light, do need to detect motion for smart photocell function.
- Turn off light by stand-by time for corridor function. Turn off light by natural light level lower than setpoint off of light for smart photocell function.