Alphalite Inc.

PROJECT			
TYPE		DATE	
ITEM NO.			
NOTE			

LOW VOLTAGE PIR BI-LEVEL SENSOR

MMS-DC-PIR15P Series
Bi-level PIR Sensor

DESCRIPTION

The MMS-DC-PIR15P is passive infrared occupancy bi-level sensor ,as a fixture sensor mounts in indoor light fixture and provides multi-level control based on motion and/or daylight contribution.
It works by 10-14Vdc power, and controls 0-10VDC LED drivers or dimming ballasts, All controls parameters (Hold time, task light level, stand-by level, stand-by time) are adjustable via a wireless configuration tool capable of storing.

MMS-DC-PIR15P

RC-100

SPECIFICATION FEATURES

Benefits
- Power input: 10-14VDC.
- Built-in daylight sensor.
- Controls 0-10V dim-to-off LED drivers or dimming ballasts.
- Detection area, time delay and daylight threshold & harvesting can be precisely set via remote control RC-100.
- 30ft in diameter detection range and mounting height 12ft Max.
- Integrated installation

Max. 15ft | Mounting Height 12ft Max. | Daylight Sensor | Daylight Harvesting | Hold Time 10S-60min | Automatic Dimming | 5 Years Guarantee

WARNING

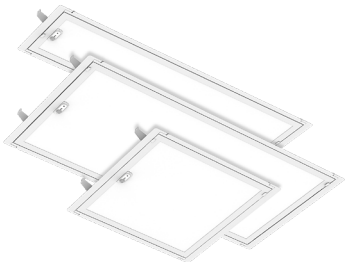
NOTE: Warm up time is 40seconds. After the sensor connects input power first time, the light will keep on 40 seconds, then go to dimming to work normally.
NOTE: Factory Default Setting: 100% sensitivity, Hold on time 5min, Daylight sensor is ☼, Dimming level 30%, Dimming time: 60minitues.
NOTE: Any setting changed by remote control, the LED light that sensor connect will on/off as confirm.

ORDERING INFORMATION

Available with the following Alphalite products:

BFPL-S & BFPL-HB

RFPL



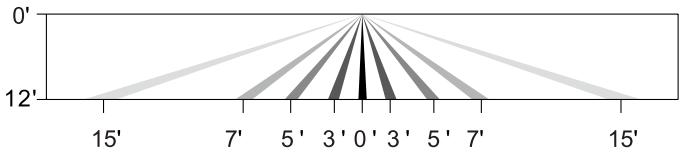
STL-S

SUMMARY

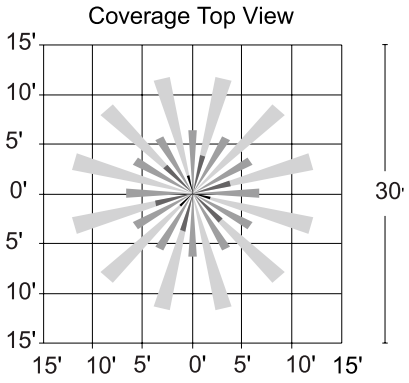
Imput Voltage	10-14V DC, >50mA
Power Consumption	0.1W
Dimming	0-10V, max.25mA sinking current
Mounting Height	Max.12ft
Detection Range	Max. 15ft / 360°
OP. Temperature	-4°F - +140°F (-20°C~+60°C)
Time Setting	10S to 60mins
Daylihgt-control	10 to 500lux
Dimming Level Setting	0%,10%, 30%, 50%
Warranty	Five year warranty
IP Rating	IP20

SENSOR COVERAGE

Coverage side view @12ft mounting height

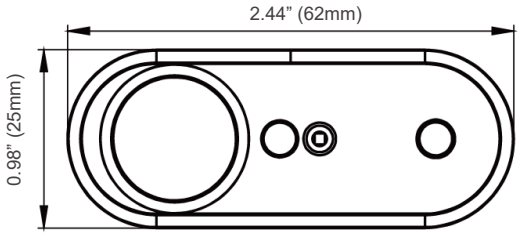


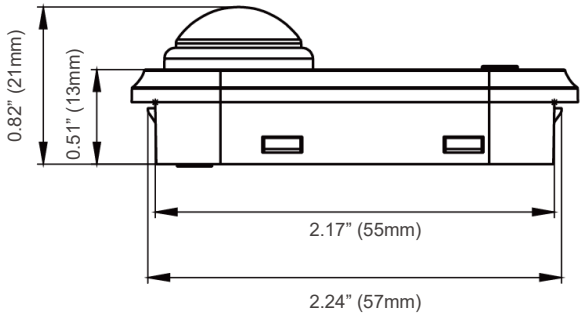
Coverage top view @12ft mounting height



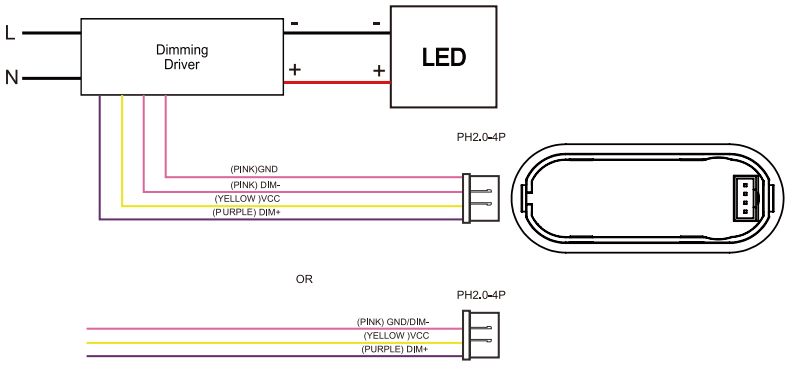
PHYSICAL PARAMETERS

DIMENSION



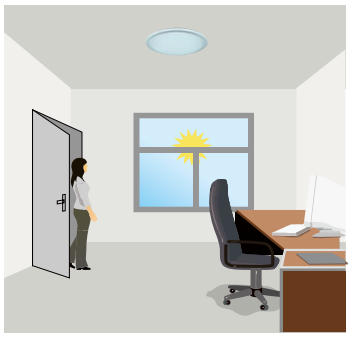


WIRING DIAGRAMS

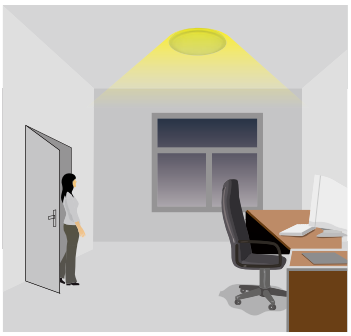


Corridor Function

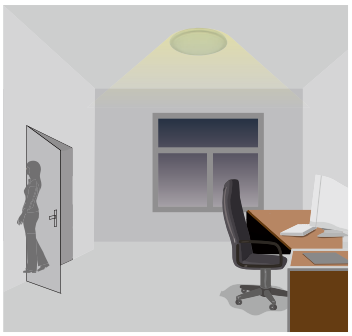
This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch-off, The sensor offers 3 levels of light: 100%->dimmed light(natural light is insufficient) ..>off: and 2 periods of selectable waiting time: motion hold-time and stand-by period: Selectable daylight threshold and freedom of detection area.



With sufficient natural light, the light does not switch on when presence is detected.



With insufficient natural light, the sensor switches on the light automatically when presence is detected



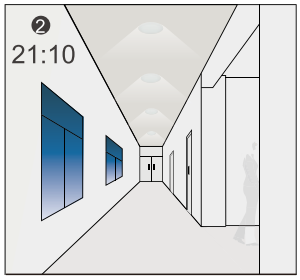
After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.

Light switches off automatically after the stand-by period elapses.

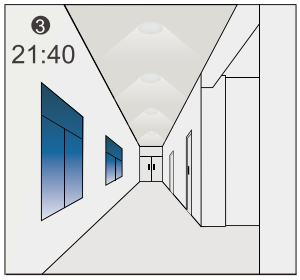
Smart Daylight Sensor Function

Open the daylight sensor by push ⏏ when remote control is in setting condition

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



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

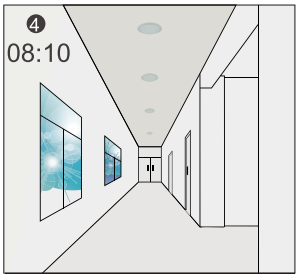


The light remains in dimming level at night

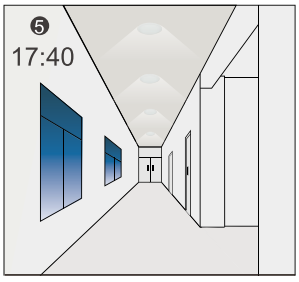
Setting on this demonstration:
Hold-time: 30 min
Setpoint on: 50lux
Setpoint off: 300lux
Stand-by dim: 10%
Stand-by period: + ∞
(When the smart photocell sensor open, the stand-by time is only + ∞)

❶ ⇄ ❸ goes in cycle at night…

100% on when movement detected, and dims to 10% in long absence.



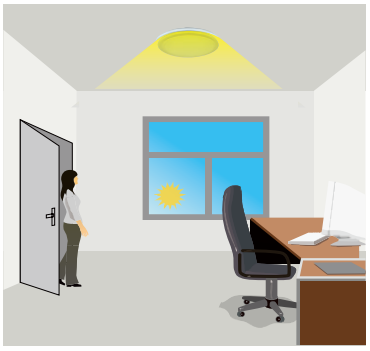
When the natural light level exceeds set point off to light, the light will turn off even if when the space is occupied.



The light automatically turns on at 10% when natural light is insufficient(no motion).

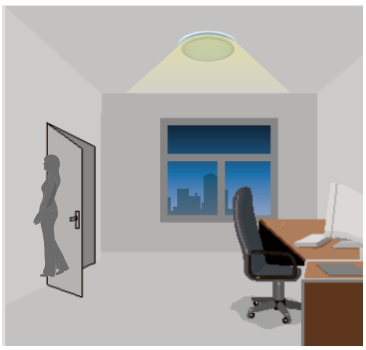
Daylight Harvesting

Open the daylight harvesting function only by choosing "👁" button when remote control is in setting condition, Memory and maintain current ambient brightness.



When the natural light is sufficient or dark, movement is detected and the light will turn on 100% brightness.

The light truns on at full or dims to maintain the lux level. The light output regulates according to the level of naturallight available.



The light dims to stand-by period after hold-time and stays on selected minimum dimming level.

The light switches off completely after the stand-by period.

Setting on this demonstration:
Brightness: 100%
Sensitivity: 100%
Hold-time: 30 min
Daylight sensor: 👁
Stand-by dim: 30%
Stand-by time: 1 min