

## Fixture Mounted, Bi-Level Occupancy Sensor for Wall Pack and Area Lights

Dimming



## Introduction

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The OSBL-WP mounts in an outdoor lighting fixture and provides multi-level control based on motion and/or daylight contribution. It controls 0-10V LED drivers or dimming ballasts, as well as non dimming ballasts and is rated wet and cold locations. All control parameters are adjustable.

### Application

The low profile OSBL-WP is designed for installation on the side of a lighting fixture body. The sensor is ideal for areas such as parking facilities, gas stations, pedestrian pathways and warehouses. The PIR lens ensures complete coverage for mounting heights up to 40'.

### Features:

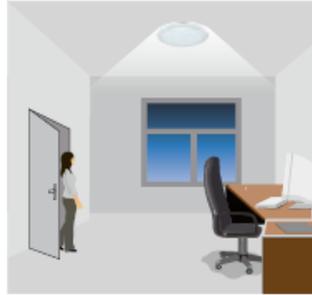
- Provides Line voltage On/Off switching and 0-10V dimming control
- Works with ballasts or LED drivers.
- High and low modes fully adjustable from 0-10V
- Time Delay from 10sec to 60 min  
Optional cut off delay
- Adjustable ramp up and fade down times
- Polycarbonate, flame retardant, UV resistant

## Dimming Configurations

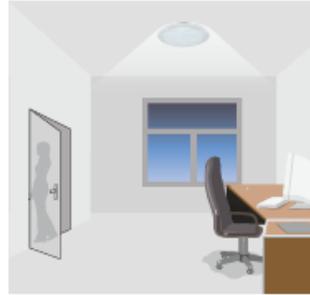
This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch Off. The sensor offers 3 levels of light; 100%-->dimmed light (natural light is insufficient)-->off; and 2 periods of selectable waiting time: motion hold time and stand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



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



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

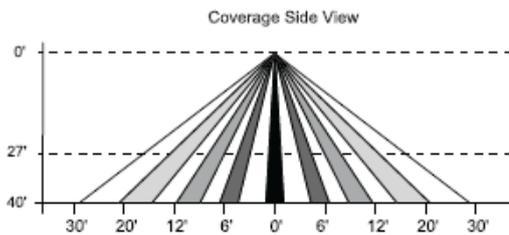


After hold-time, the light dims to stand by level if the surrounding natural light is below the daylight threshold.

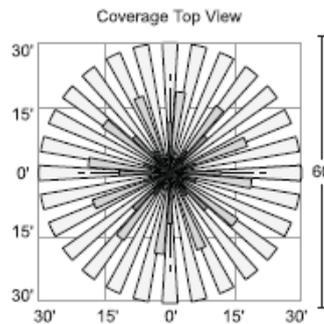


Light switches off automatically after the stand by period elapses.

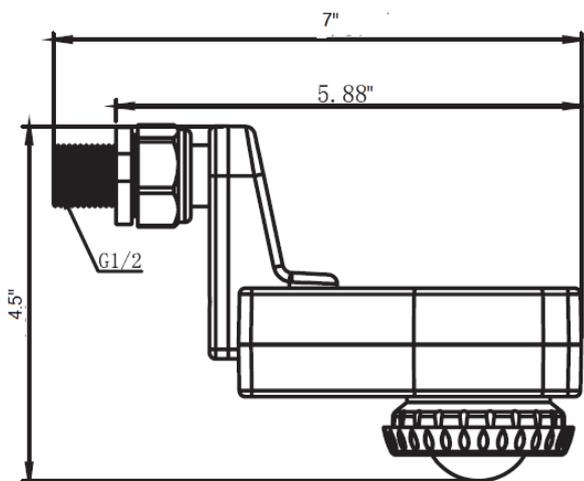
## Detection Pattern



360° Coverage



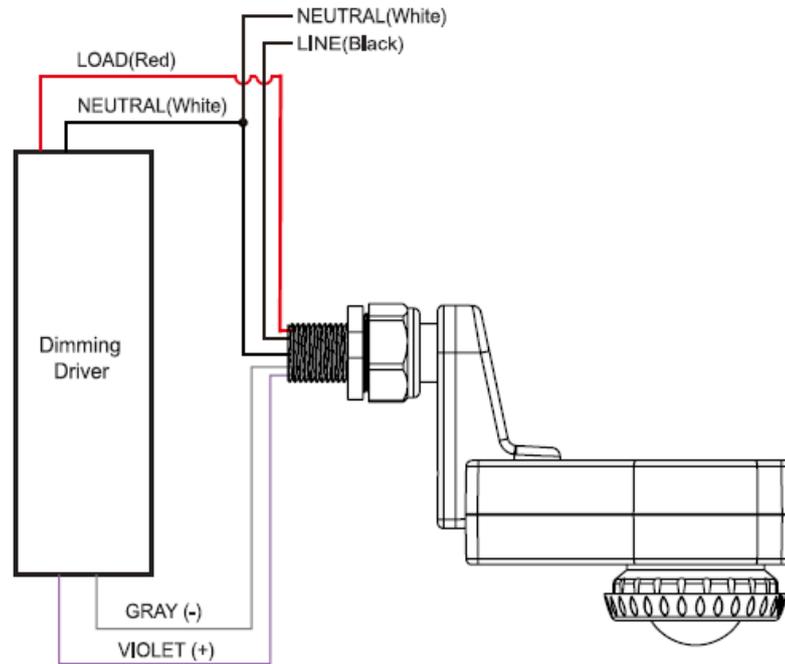
## Dimensions



## OSBL-WP Technical Specifications

Operating voltage	120~277Vac, 50Hz
Rated load	660W@220V-277VAC 200W@120VAC (Fluorescent) 800W@220V-277VAC 400W@120VAC(resistive)
Detection Radius	40ft height/360°
Dim Control Output	0-10V; max. 25mA sinking current
Mounting Height	Max. 40ft
Temperature	-40- +70°C
Operating Humidity	95% RH

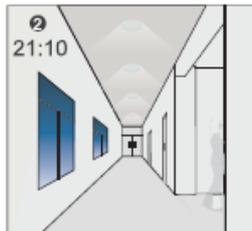
## Wiring Diagram



## Sensor Settings



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.

Settings on this demonstration:

Hold-time: 30min

Setpoint on: 50lux

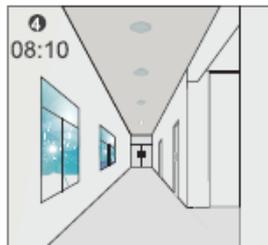
Setpoint off: 300lux

Stand-by Dim: 10%

Stand-by period:  $+\infty$

(when the smart photocell sensor open, the stand-by time is only  $+\infty$ )

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



When the natural light level exceeds setpoint 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).

