

## Wireless Dimming Fixture Mount PIR Sensor

### Overview

- Bluetooth® NLC Certified
- PIR sensor
- Mount in Fixture
- High-End Trim, Zoning, Continuous Dimming
- LED Motion indicator
- Active High output for Relay drive
- Mounting height of 10ft (3m)
- Conforms with DLC NLC5 Cybersecurity Standards



Suitable for indoor use



### Applications

The PSC-BL-I-RT-DC0-BLE-SR uses digital PIR Occupant Sensor Architecture and Dual Element passive infrared (PIR) technology for improved detection coverage for indoor ceiling, or acoustical tile mount applications. The sensor is ideal for LLLC (Luminaire Level Lighting Control) strategies in larger areas like open offices, cafeterias, corridors where it is desired to maximize granular energy savings.

The PSC-BL-I-RT-DC0-BLE-SR is a Class 2 Device designed to satisfy CA Title 24 requirements for dimming\* of lighting fixtures.

The sensor is suitable for a variety of indoor applications. It supports fixture mounting heights up to 10ft (3m).

\*For dim to off, mwConnect PacWave™ Power Pack or LED dimming driver capable of dimming to off is required.

### Sensor Operation

**TruBlu™ Mesh:** The sensor is a Bluetooth NLC certified device by the Bluetooth SIG and offers true multi-vendor interoperability. Configuration of the device and mesh network is accomplished via the TruBlu web portal or iOS mobile app. The app is used for initial setup and subsequent parameter adjustment.

Advanced functionality such as energy monitoring, and demand response is available with the optional TruBlu Gateway.

**Dimming:** 0-10V dimmer connects to 0-10V control on the LED driver.

**Relay Control:** An additional Control High Output can be used to trigger relays or other control circuitry.

See the TruBlu Commissioning User Manual for more information.

### Accessories

**Power Pack:** The PSC-BL-I-RT-DC0-BLE-SR-CM operates on 12-24VDC input and requires a separate mwConnect PacWave™ power pack.

Alternatively, the sensor can also operate with a driver that has a 12V auxiliary output.

### Summary

Sensor Type:  
PIR Occupancy/Vacancy Sensor

Input Voltage | Current Consumption:  
12-24 VDC | 50 mA

0-10V Output: 30mA

Output: Active High Vin-2.5V 30mA source

Mounting Height:  
Fixture mounting height at 10ft (3m)

Max Sensor Range:  
10ft (3m) radius

Max Bluetooth Range <sup>1</sup>:  
100ft (30.4m)

Operating Temperature:  
-30° C to 70° C

Storage Temperature:  
-40° C to 80° C

Relative Humidity:  
90-95% non-condensing

Color: White

Warranty: 5 years

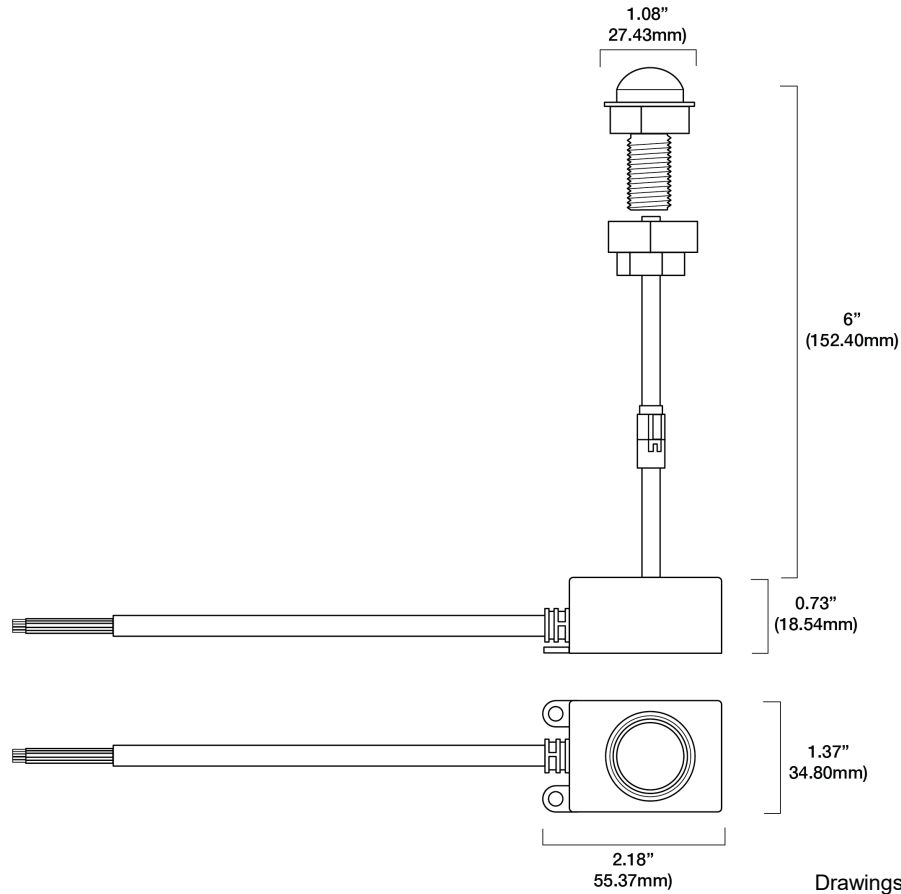
Note:

1. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

Project

Location/Type

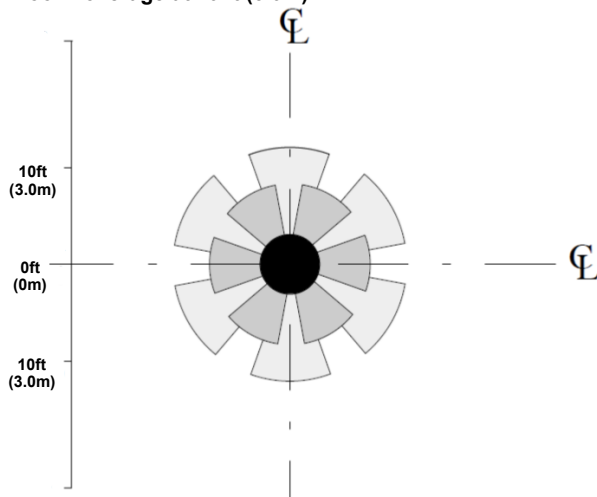
## Physical Dimensions



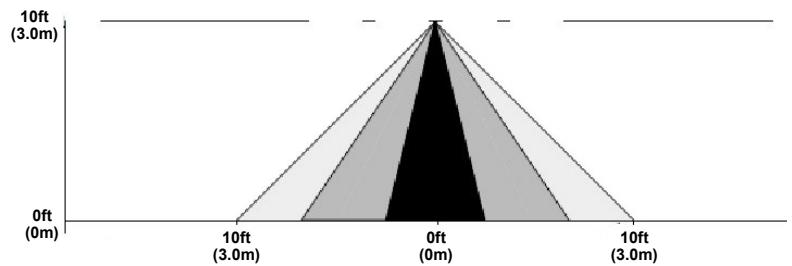
Drawings are Not to Scale

## Detection Area

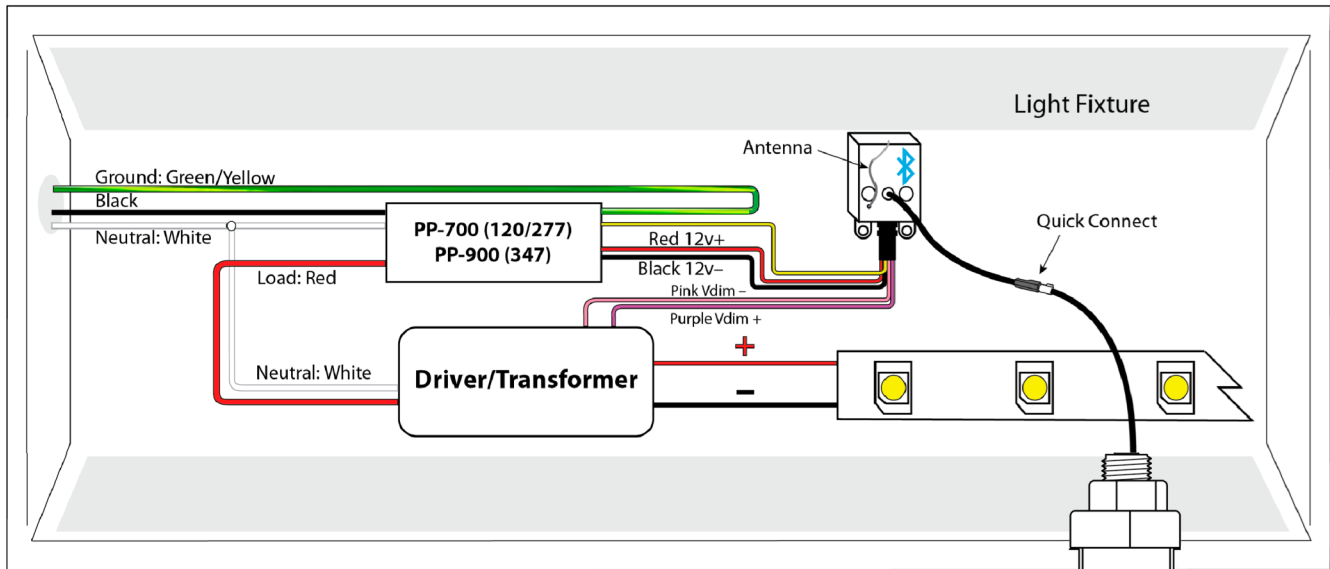
Floor Coverage at 10 ft (3.0m)



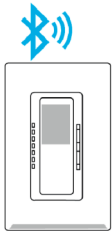
Side View



## Wiring Diagram and Fixture Mount



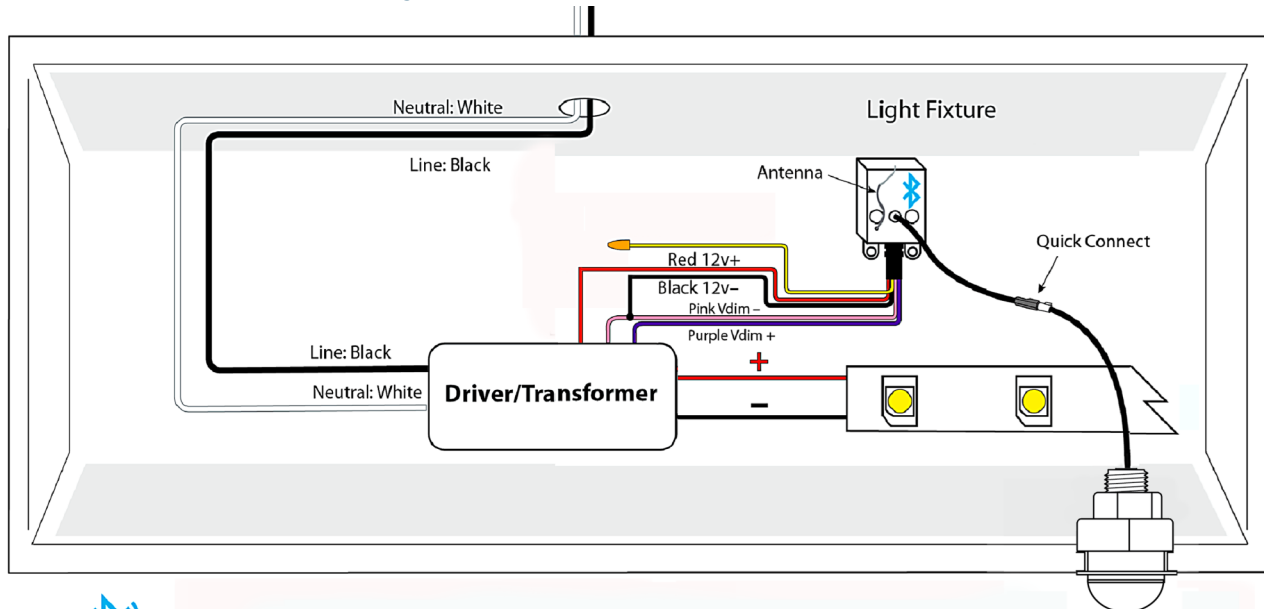
\* Effective 2021 per NEC change, 0-10v signal wires will be purple/pink. Devices manufactured prior to 2021 may be purple/gray and still used in field.



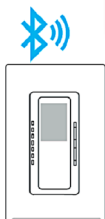
0-10 Volt Dimming Driver, PP-700 or PP-900,  
PIR Sensor

**PSC-BL-I-RT-DC0-BLE-SR**  
Fixture Mount PIR

## Dim to Off Driver with 12v Auxiliary Power

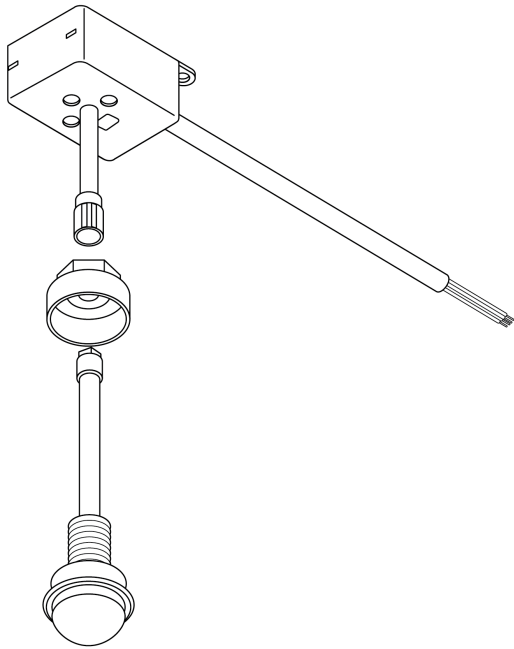


Typical for McWong Fixture Mount Sensors with DIM to OFF and 12V Auxillary Power:  
PSC-BL-I-RD-DC0-BLE-SR, PSC-BL-RT-DC0-BLE-SR

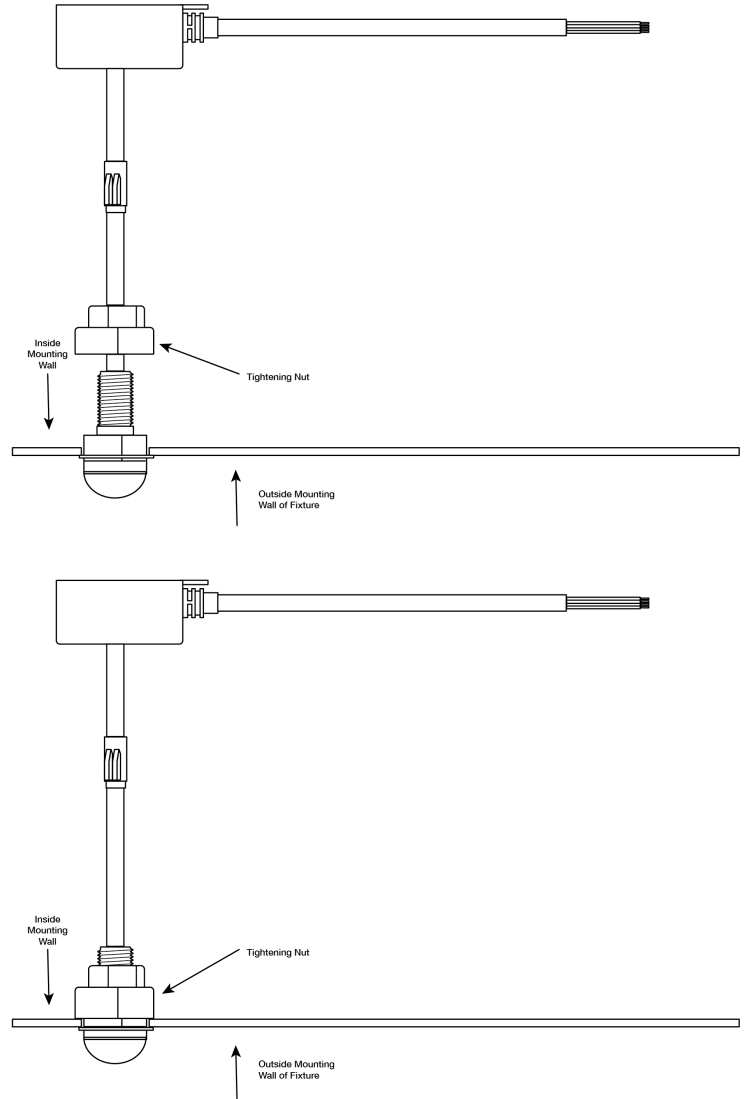


**LED DIM to Off with 12v Auxilliary Output**  
Fixture Mount Sensor, Wireless Dimmer

## Installation Fixture Mount

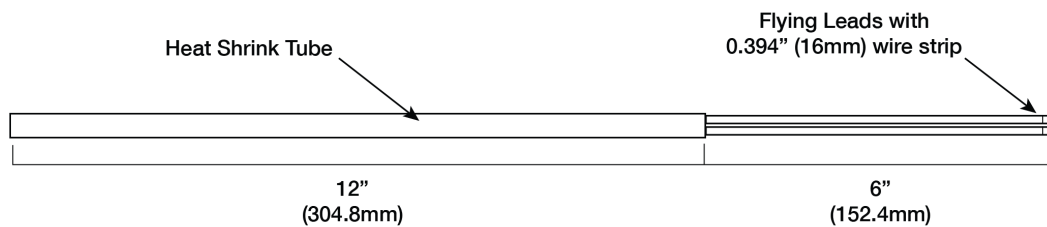


For ceiling mount version see data sheet  
PSC-BL-I-RT-DC0-BLE-SR-CM.



## Leads

Minimum 22AWG



## How to Order

Tolerance  $\pm 1"$  (25.4mm)

Model No.	Description	Input Voltage	Dimming Output	Output
PSC-BL-I-RT-DC0-BLE-SR	Passive Infrared (PIR) Fixture Mount Occupancy Sensor, TruBlu,™ Silvair technology partner	12-24VDC	0-10V, 30mA	Active High

For Line to Low Voltage Power Supply/Controller, please see mwConnect PacWave™ Power Pack data sheets.

Design and specifications are subject to change without notice.