

Wireless Dimming Fixture Mount PIR/ Daylight Sensor



Suitable for indoor use only



Overview

- PIR and Daylight sensor
- Mount in Fixture
- Casambi Wireless Mesh
- High-End Trim, Zoning, Continuous Dimming
- LED Motion indicator
- Active High for Relay drive
- Mounting height of 9ft (2.7m)
- ioXt Alliance cybersecurity certification

Applications

The PSC-BL-I-RD-DC0-BLE-CB uses digital PIR Occupant Sensor Architecture and Dual Element passive infrared (PIR) technology for improved detection coverage for indoor ceiling, acoustical tile or fixture mount applications. Ideal for LLLC (Luminaire Level Lighting Control) that are in a larger area like open offices, cafeterias, corridors where it is desired to maximize granular energy savings.

The PSC-BL-I-RD-DC0-BLE-CB also has an integral daylight sensor for daylight harvesting applications.

The PSC-BL-I-RD-DC0-BLE-CB 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 9 ft (2.7m). Both sensor and power pack are rated for use in temperatures ranging from -30° to 70° C and relative humidity from 90 to 95% at 30°C.

*For dim to off, McWong PacWave™ PSC-AC-PP-100/200/700C/900 Power Pack or LED dimming driver capable of dimming to off is required.

Sensor Operation

Casambi Wireless Mesh Controls: The sensor connects to a wireless mesh network via a mobile app, available as iOS or Android, to allow initial setup and subsequent parameters adjustments.

User Interface: Using the mobile app, features include: setup, control real time feedback, and scheduling without a gateway or internet access.

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

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

See the McWong Casambi Commissioning User Manual for more information.

Accessories

Power Pack: The PSC-BL-I-RD-DC0-BLE-CB operates on 12-24 VDC input and requires a separate power pack such as the McWong PacWave™ PSC-AC-PP-200/400/700C/800/900.

Alternatively, the sensor can operate with a dim to off driver that has an auxiliary output (12 V).

Summary

Sensor Type:
PIR Occupancy/Vacancy and Daylight Sensor

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

0-10V Output: 100 mA

High: Vin-2.5 V 100 mA source

Mounting Height:
Fixture mounting height at 9ft (2.7m)

Max Sensor Range:
6ft (1.8m) radius

Max Wireless Range ¹:
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

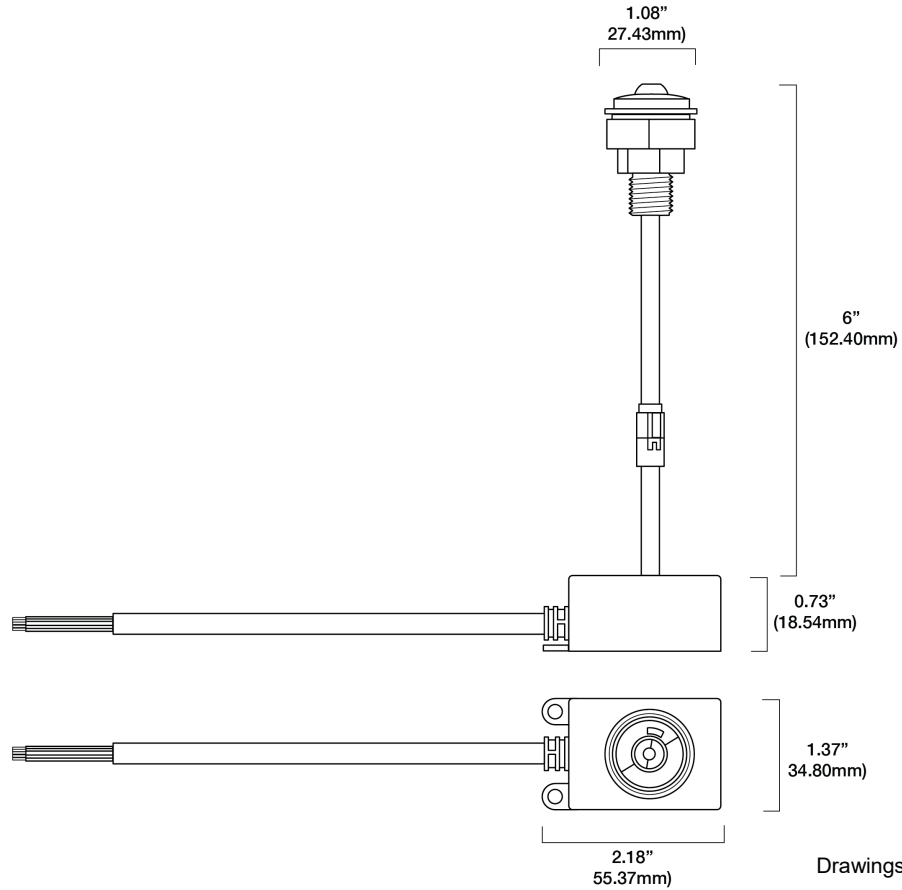
Note:

1. Wireless 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

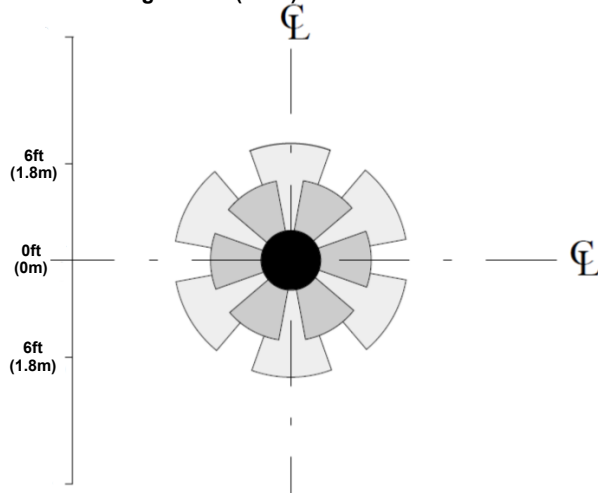
Physical Dimensions



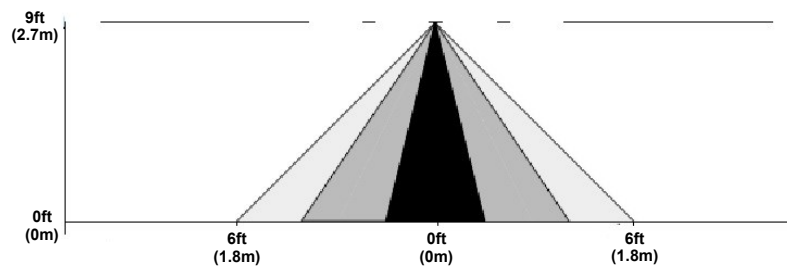
Drawings are Not to Scale

Detection Area

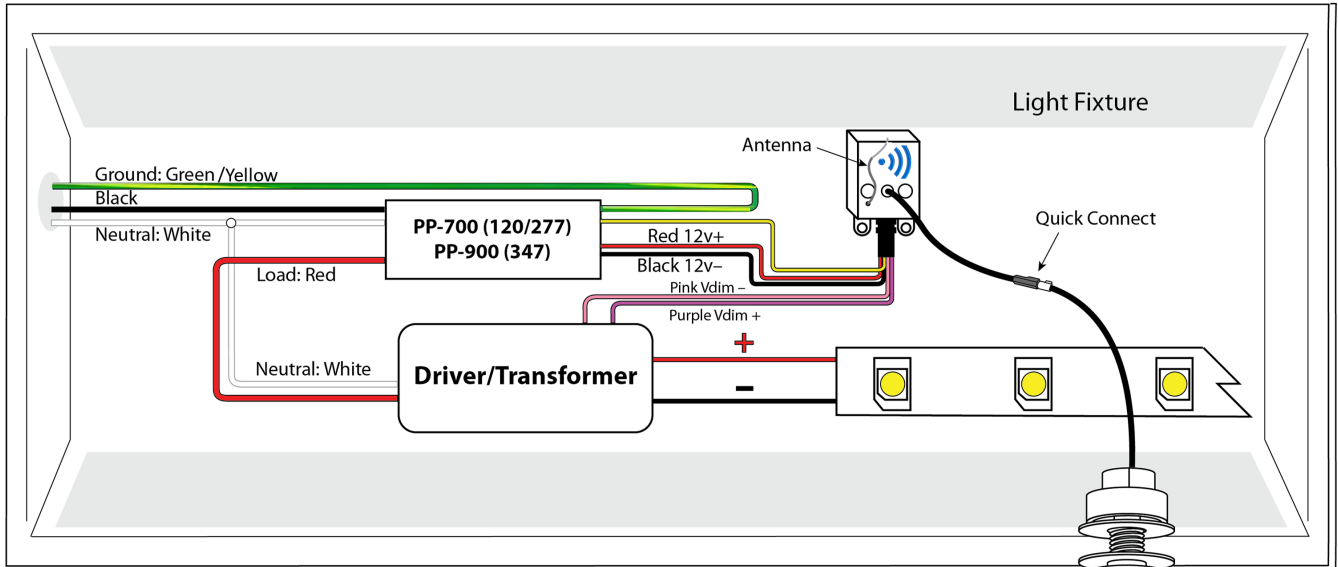
Floor Coverage at 9 ft (2.7m)



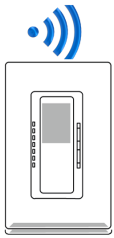
Side View



Wiring Diagram and Fixture Mount



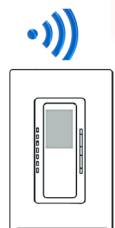
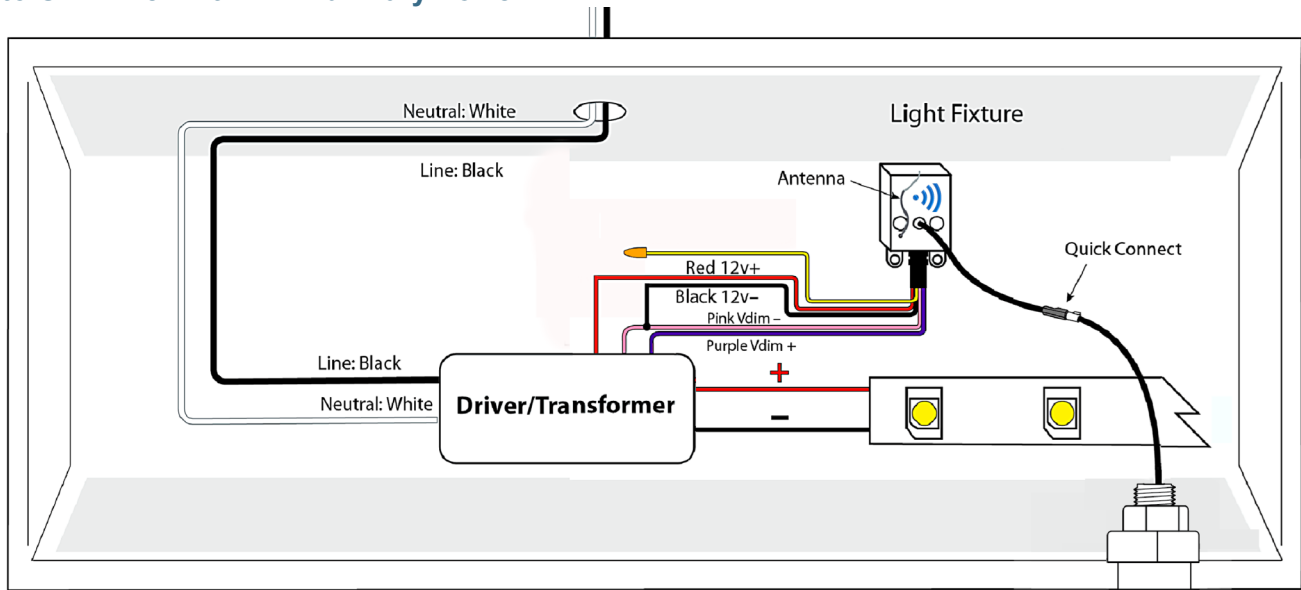
* Effective 2021 per NEC change, 0-10v signal wires will be purple/pink. Devices manufactured prior to 2021 may be purple/gray and still used in field.



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

PSC-BL-I-RD-DC0-BLE-CB
Fixture Mount PIR/Daylight Sensor

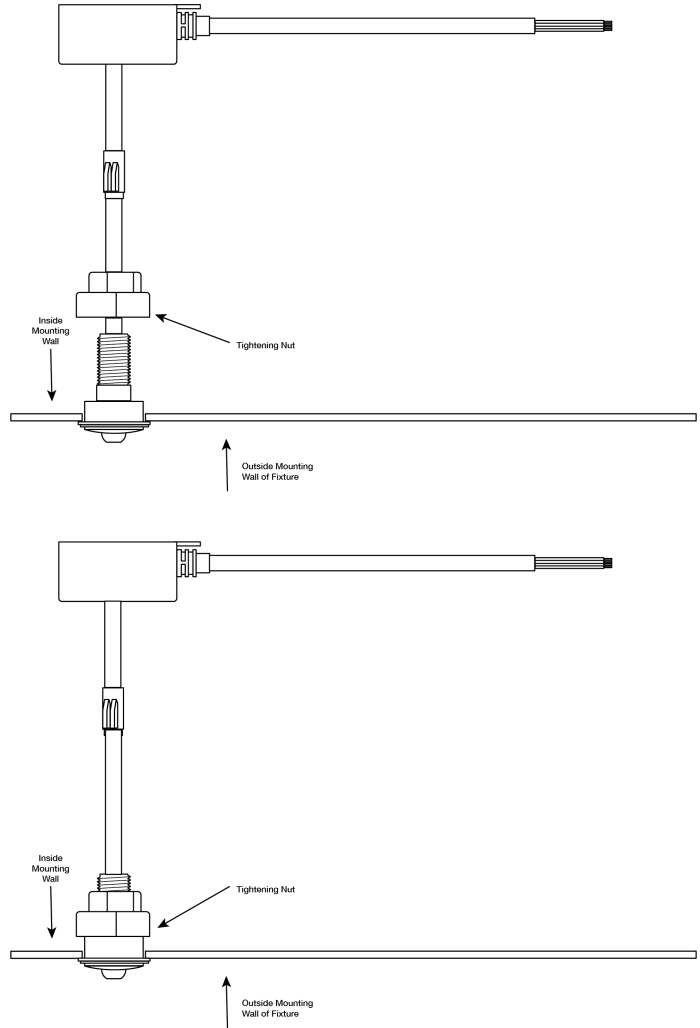
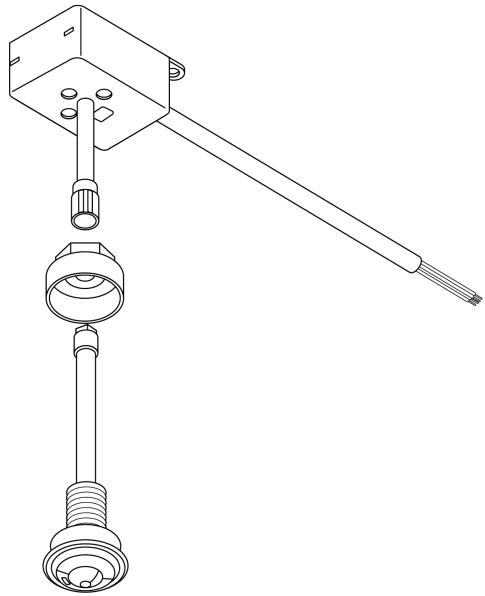
Dim to Off Driver with 12v Auxiliary Power



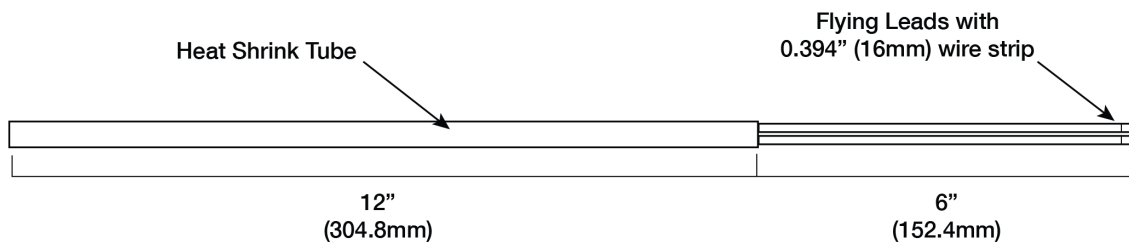
LED DIM to Off with 12v Auxilliary Output
Fixture Mount Sensor, Wireless Dimmer

PSC-BL-I-RD-DC0-BLE-CB
PIR/Daylight Sensor

Installation Fixture Mount



Leads: Minimum 22AWG



Tolerance $\pm 1"$ (25.4mm)

How to Order

Model No.	Description	Input Voltage	Dimming Output	Output
PSC-BL-I-RD-DCO-BLE-CB	Passive Infrared (PIR) Fixture Mount Occupancy Sensor and Daylight Sensor with Casambi Wireless Mesh.	12-24VDC	0-10V, 100mA	Active High

For Line to Low Voltage Power Supply/Controller, please check McWong PacWave™ PSC-AC-PP-200/400/700C/800/900. Design and specifications are subject to change without notice.