

Wireless Dimming Fixture Mount PIR/ Daylight Sensor

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



Suitable for indoor use only



Applications

The PSC-BL-I-CM-RD-DC0-BLE-CB uses digital PIR Occupant Sensor Architecture and Dual Element passive infrared (PIR) technology for improved detection coverage for indoor fixture mount applications.

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

The PSC-BL-I-CM-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 ceiling mount version see data sheet PSC-BL-I-RD-DC0-BLE-CB/CM.

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 mwConnect Casambi Commissioning User Manual for more information.

Accessories

Power Pack: The PSC-BL-I-CM-RD-DC0-BLE-CB operates on 12-24 VDC input and requires a separate power pack such as the mwConnect 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:

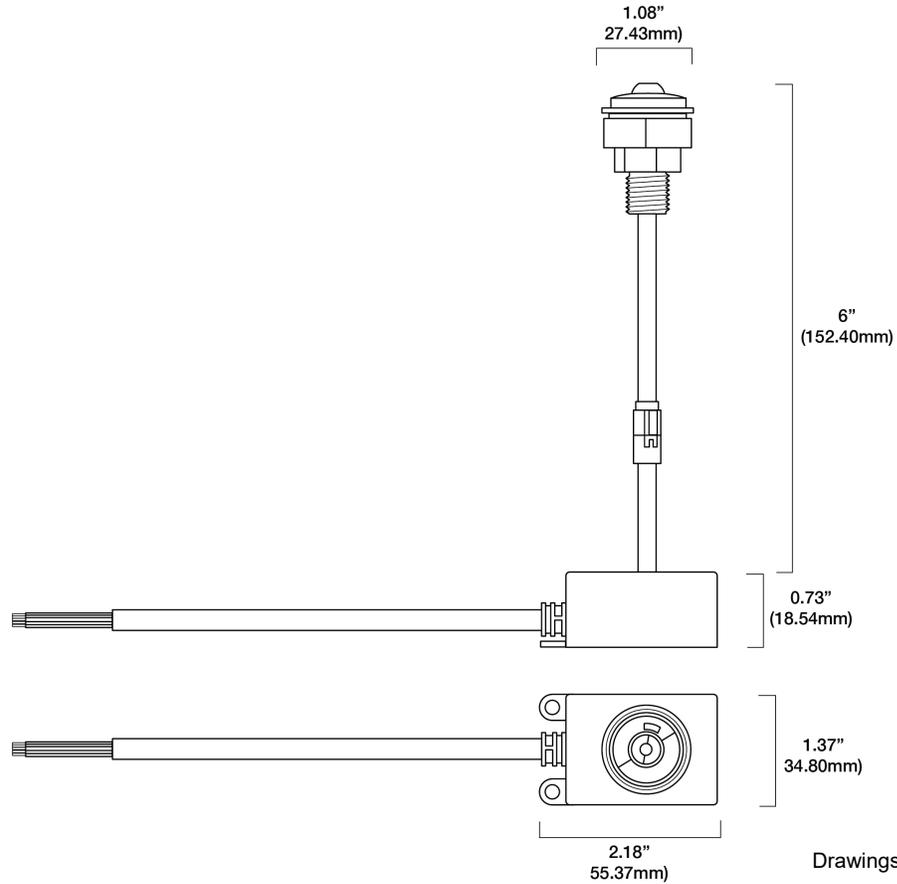
1. Wireless Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

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

Project

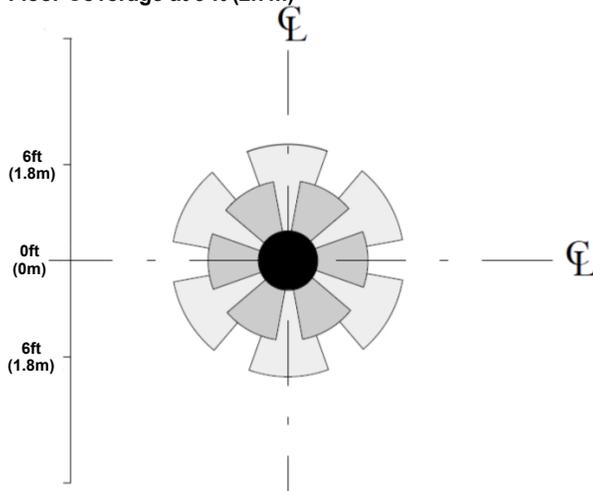
Location/Type

Physical Dimensions

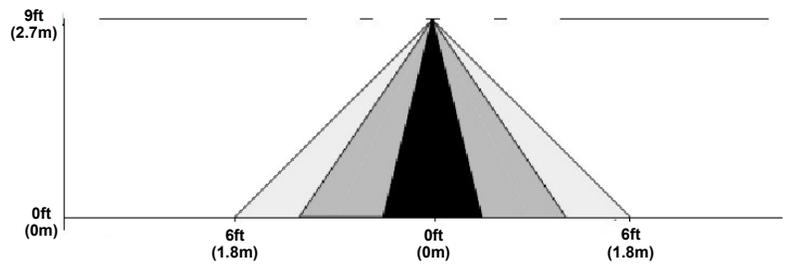


Detection Area

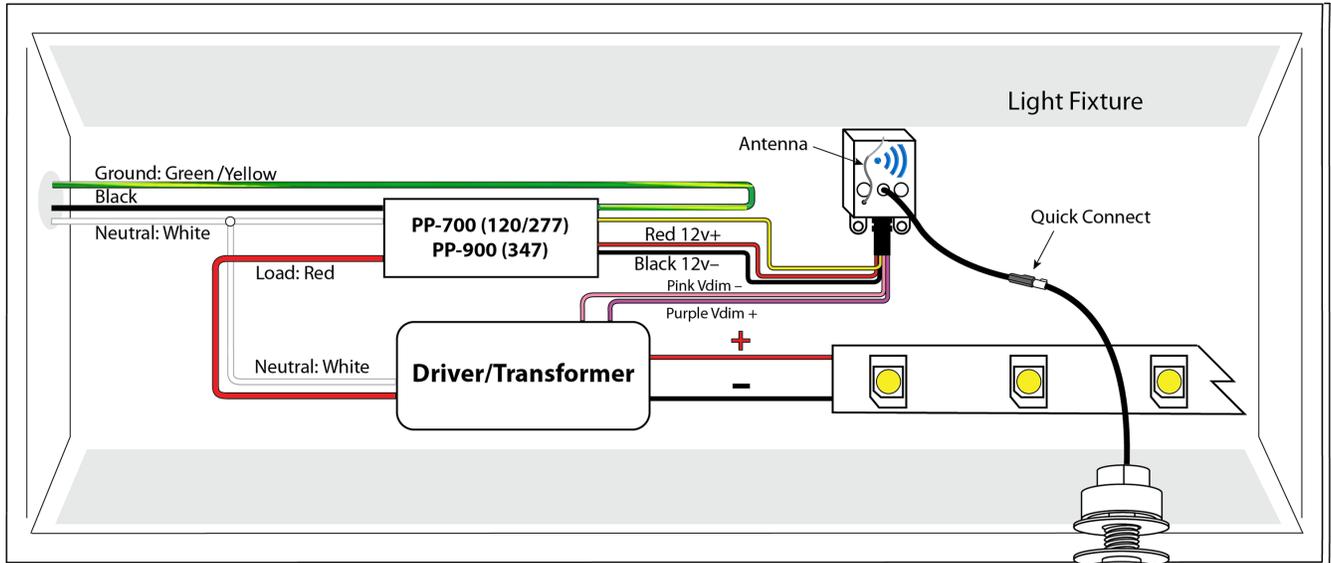
Floor Coverage at 9 ft (2.7m)



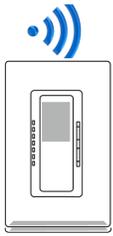
Side View



Wiring Diagram and Fixture Mount



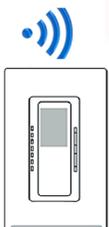
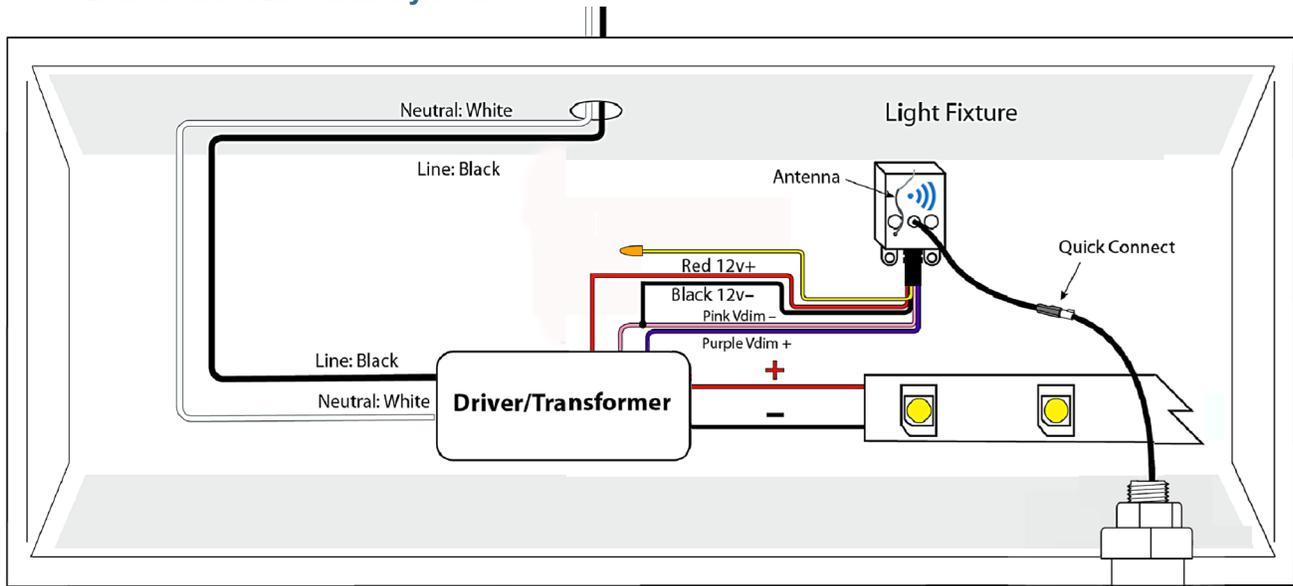
* Effective 2021 per NEC change, 0-10v signal wires will be purple/pink. Devices manufactured prior to 2021 may be purple/gray and still used in field.



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

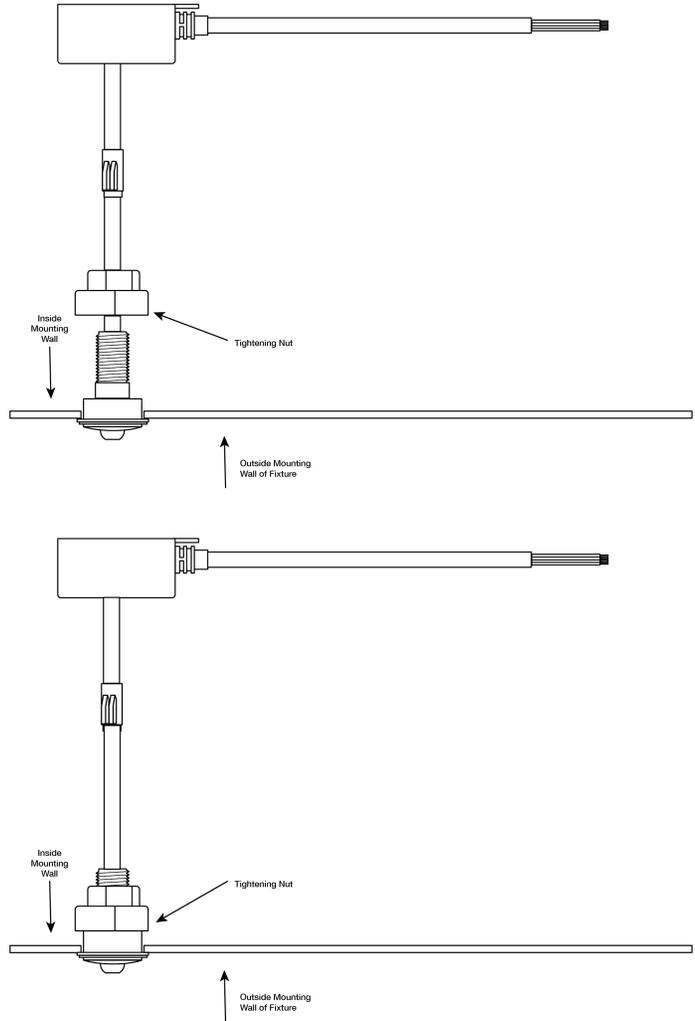
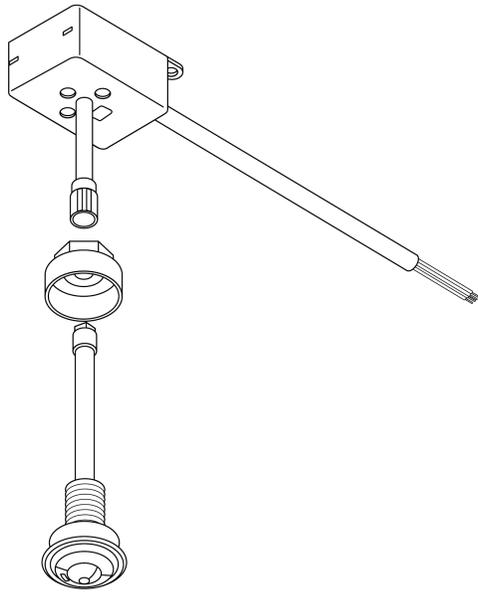
Dim to Off Driver with 12v Auxiliary Power



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

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

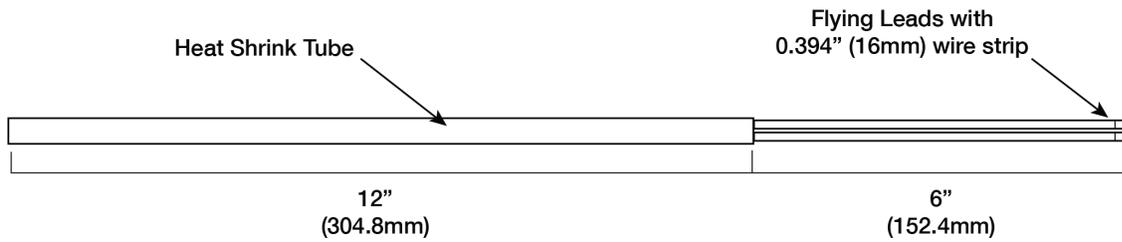
Installation Fixture Mount



For Ceiling Mount Version see data sheet PSC-BL-I-RD-DC0-BLE-CB/CM.

Minimum 22AWG

Leads:



Tolerance $\pm 1"$ (25.4mm)

How to Order

Model No.	Description	Input Voltage	Dimming Output	Output
PSC-BL-I-RD-DC0-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 mwConnect PacWave™ PSC-AC-PP-200/400/700C/800/900. Design and specifications are subject to change without notice.