DATA SHEET

Wireless Dimming Fixture Mount PIR Sensor

Suitable for indoor use only

Overview

- PIR sensor
- Mount in Fixture
- Casambi Wireless Mesh
- High-End Trim, Zoning, Continuous Dimming
- Manufactured in the USA (-BAB option)
- LED Motion indicator
- Active High output for Relay drive
- Mounting height of 10ft (3m)
- ioXt Alliance cybersecurity certification

Applications

The PSC-BL-I-RT-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. The sensor is 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-RT-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 10ft (3m). 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-RT-DC0-BLE-CB/CM.

Manufactured in the USA

The PSC-BL-I-RT device is Manufactured in the USA, using both imported and US-made components, when ordered with the –BAB option.

*For dim to off, mwConnect PacWave™ 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 sub-sequent parameters adjustments.

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

Continuous Dimming: 0-10V 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 Commis-sioning 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 mwConnect PacWave™ power pack. See mwConnect PacWave™ Power Pack data sheets.

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

Summary

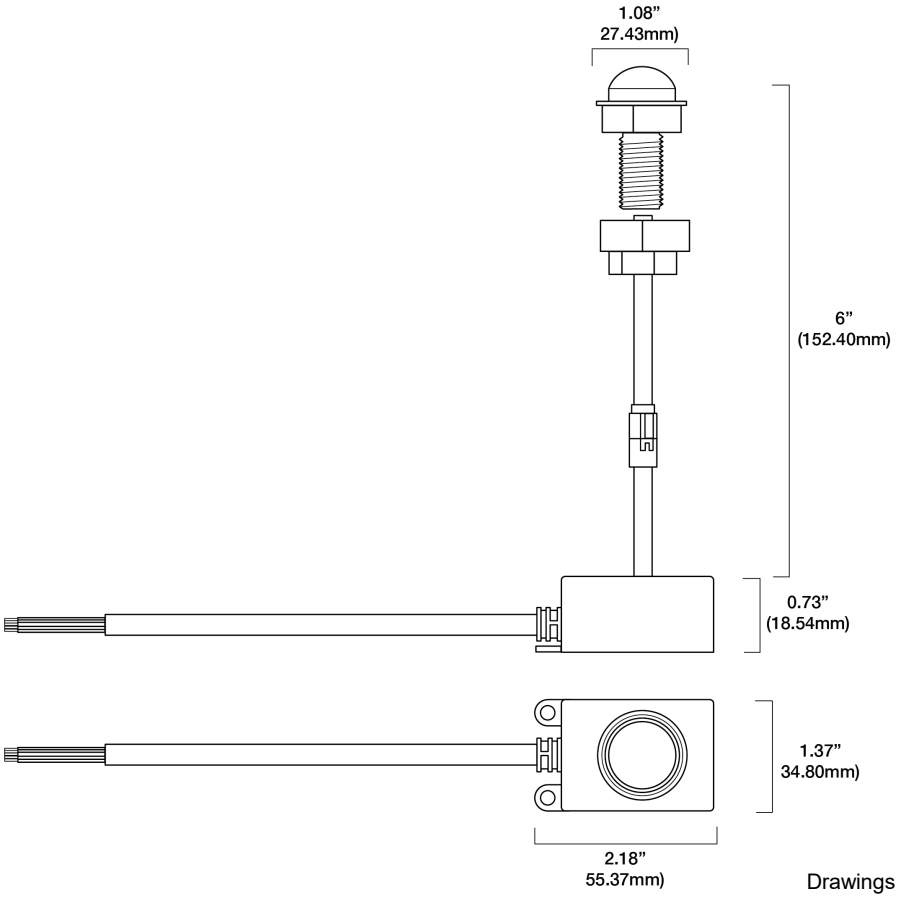
Sensor Type: PIR Occupancy/Vacancy Sensor
Input Voltage | Current Consumption: 12-24 VDC | 50 mA
0-10V Output: 30 mA
Output: Active High Vin-2.5V 30 mA Source
Mounting Height: Fixture mounting height at 10ft (3m)
Max Sensor Range: 10ft (3m) radius
Max Wireless Range [1]: 100ft (30.4m)
Operating Temperature: -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 inte-gration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

Project	
Location/Type	

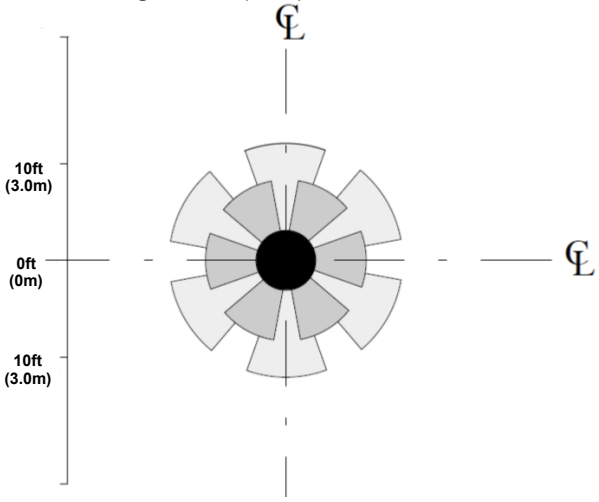
Physical Dimensions



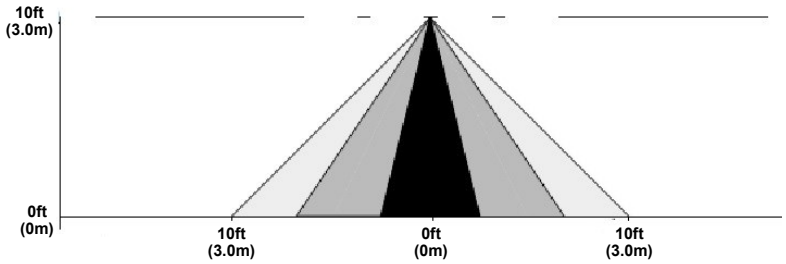
Drawings are Not to Scale

Detection Area

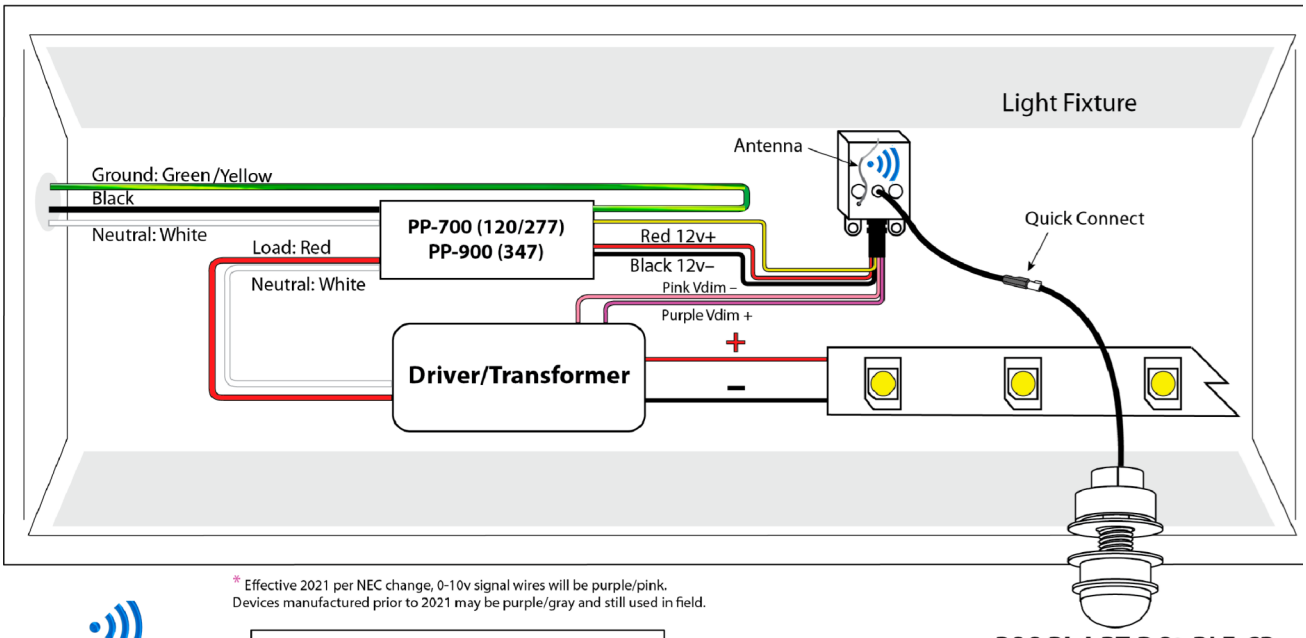
Floor Coverage at 10 ft (3.0m)

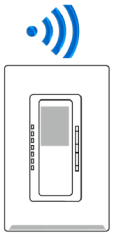


Side View



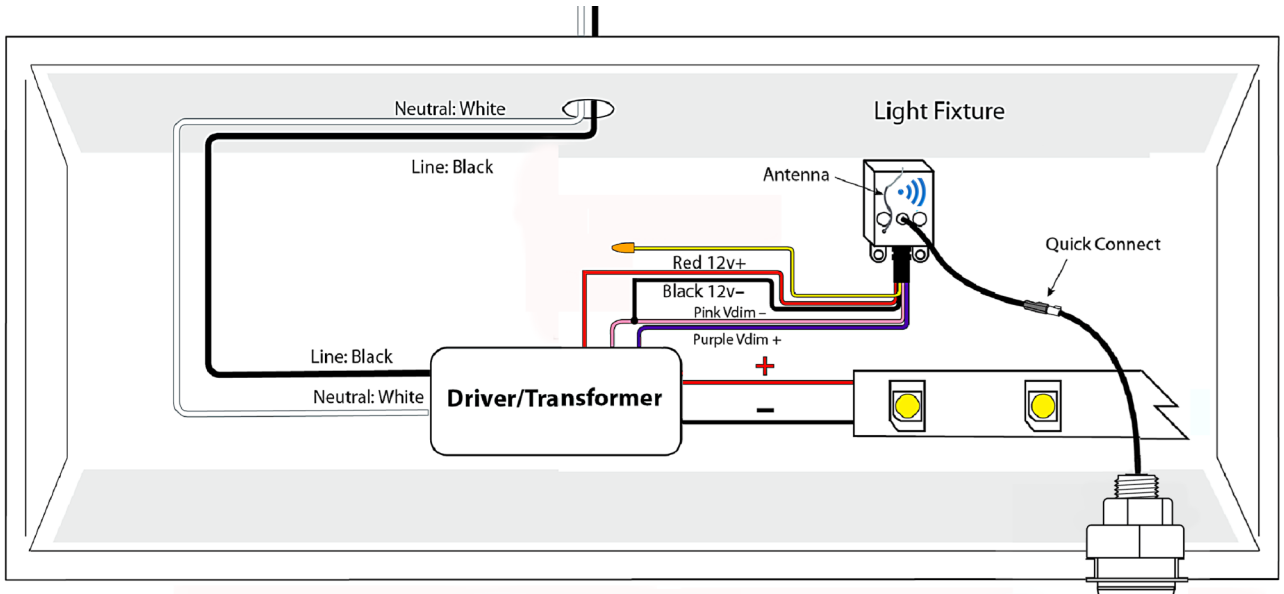
Wiring Diagram and Fixture Mount

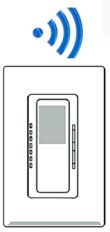




0-10 Volt Dimming Driver, PP-700 or PP-900
PIR Sensor and Wirless Switch

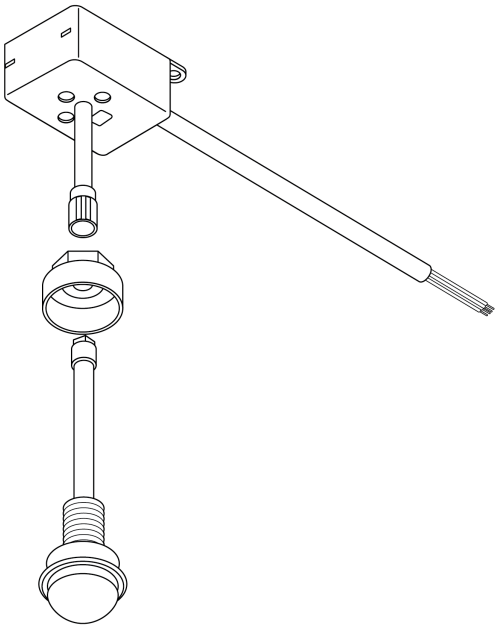
Dim to Off Driver with 12v Auxiliary Power

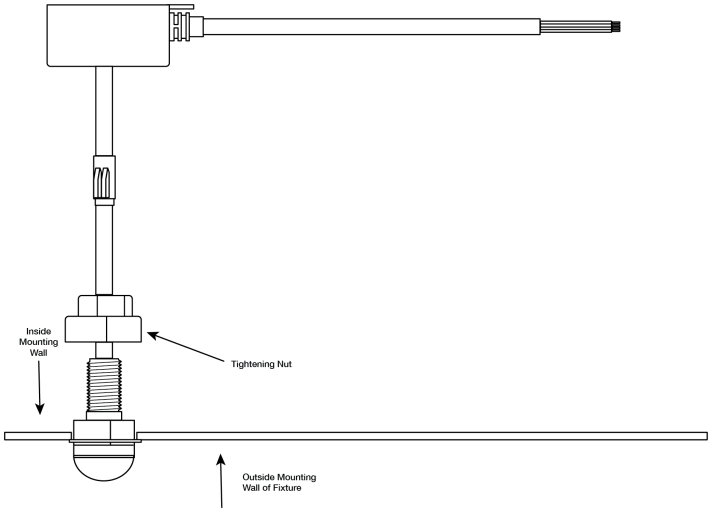


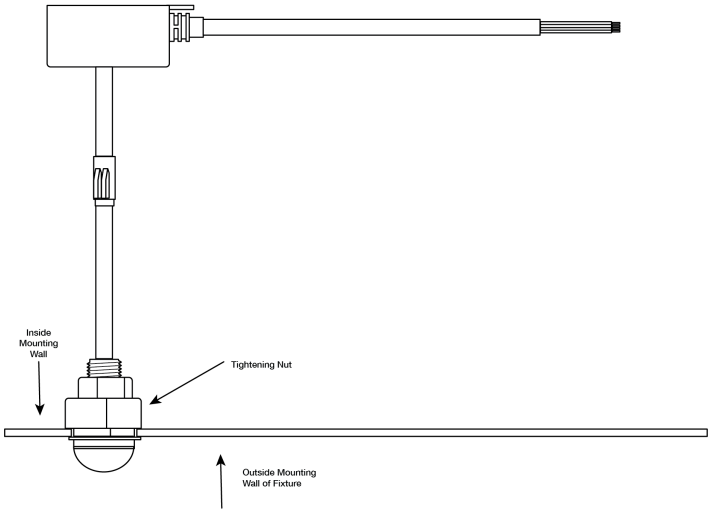


LED DIM to Off with 12v Auxilliary Output
Fixture Mount Sensor, Wireless Dimmer

Installation Fixture Mount

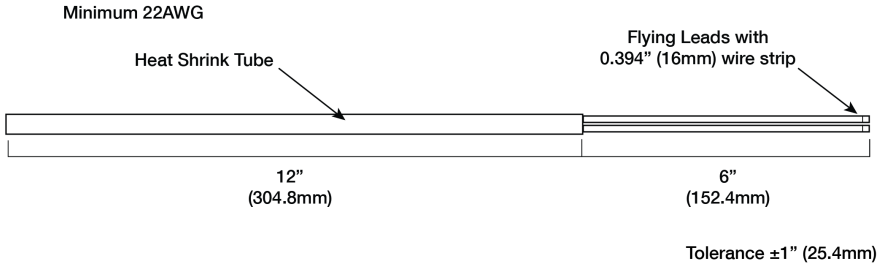






For Ceiling Mount Version see data sheet PSC-BL-I-RT-DC0-BLE-CB/CM.

Leads



How to Order

Model No.	Description	Input Voltage	Dimming Output	Output
PSC-BL-I-RT-DCO-BLE-CB	Passive Infrared (PIR) Fixture Mount Occupancy Sensor, with Casambi Wireless Mesh	12-24VDC	0-10V, 30mA	Active High
PSC-BL-I-RT-DCO-BAB-CB	Manufactured in the USA Passive Infrared (PIR) Fixture Mount Occupancy Sensor, with Casambi Wireless Mesh	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.