

Wireless Dimming Compact Remote Mount Microwave Sensor

Overview

- Microwave sensor 24.11 GHz
- Mount in Fixture
- Casambi Wireless Mesh
- Occupancy or Vacancy with Switch In Same Zone
- High-End Trim, Zoning, Continuous Dimming
- Active High Output for Relay Drive
- 33ft (10m) Diameter Coverage Pattern, at 10ft (3m) Mounting Height
- ioXt Alliance Cybersecurity Certification



Suitable for indoor use



Applications

The Wireless Dimming Microwave Sensor with Remote Head (PSC-BL-M-RT-DC0-BLE-CB) actively emits microwaves at 24.11 GHz frequency and uses the Doppler shift of the return waves to detect motion.

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

These sensors are suitable for a variety of indoor applications. They can be installed in the fixture. The sensor is rated for use in temperatures ranging from -30° - 70°C.

Accessories

Power Pack: The PSC-BL-M-RT-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 sensors can operate with a driver that has an auxiliary output (12 V).

*For dim to off, mwConnect PacWave™ PSC-AC-PP-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, monitor real time feedback, and scheduling without a gateway or internet access.

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

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

See the mwConnect Casambi Commissioning User Manual for more information.

Summary

Sensor Type:
Microwave Occupancy Sensor

Input Voltage | Current Consumption:
12-24 VDC | 85 mA

0-10V Output: 30 mA

Output: Active high Vin-2.5 V 30 mA source

Mounting Height:
Fixture or ceiling mount 10ft (3m)

Max Sensor Range Ceiling/Wall Mount:
16ft (5m) radius

Max Wireless Range¹
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

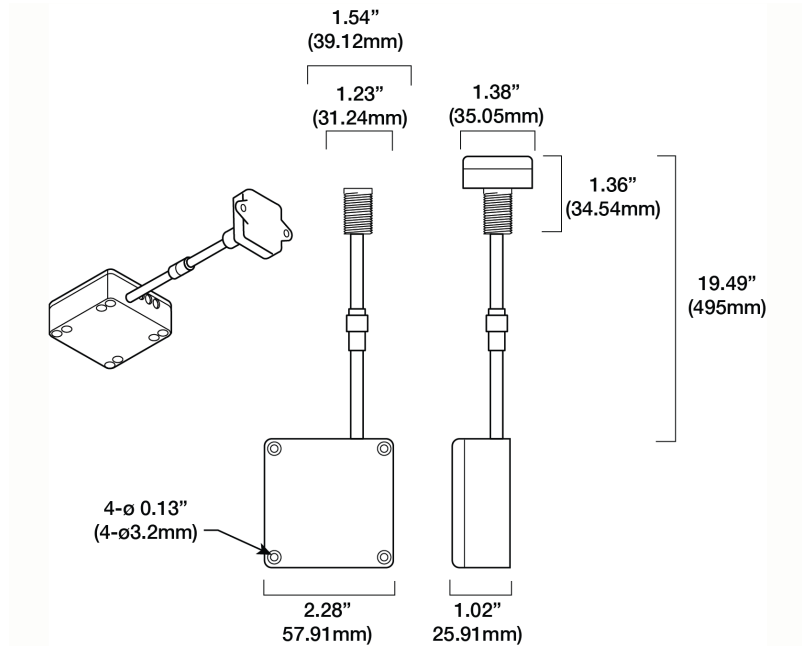
Note:

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

Project

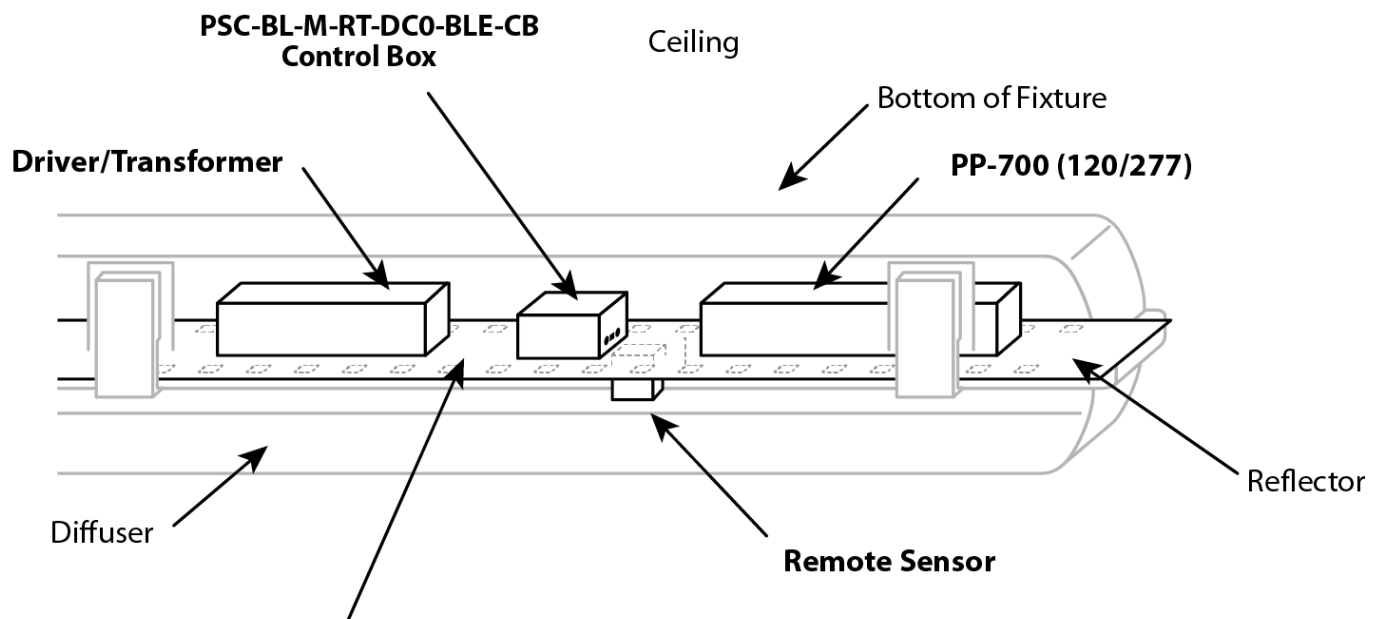
Location/Type

Physical Dimensions



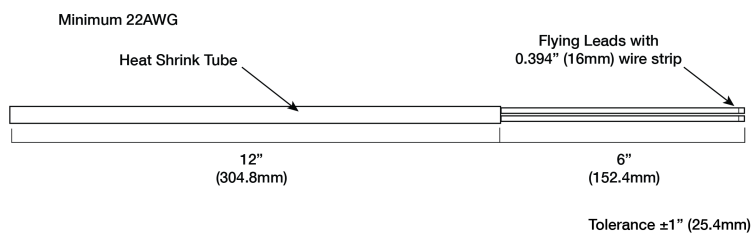
Drawings are Not to Scale

Mounting

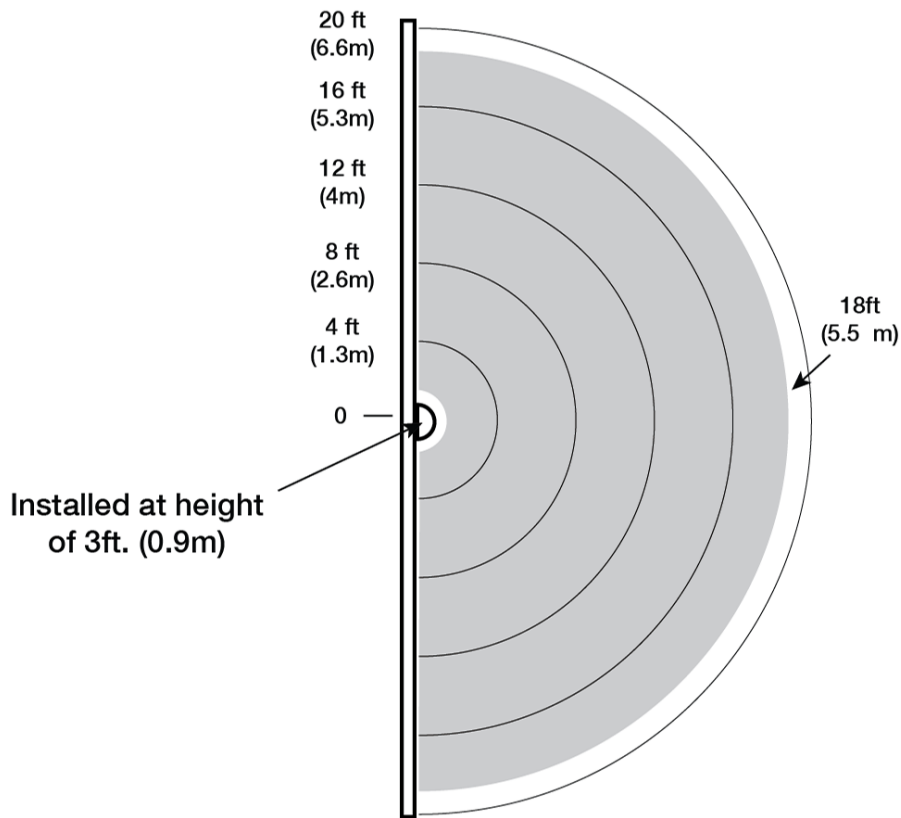


Two rows LED with Microwave Sensor in between

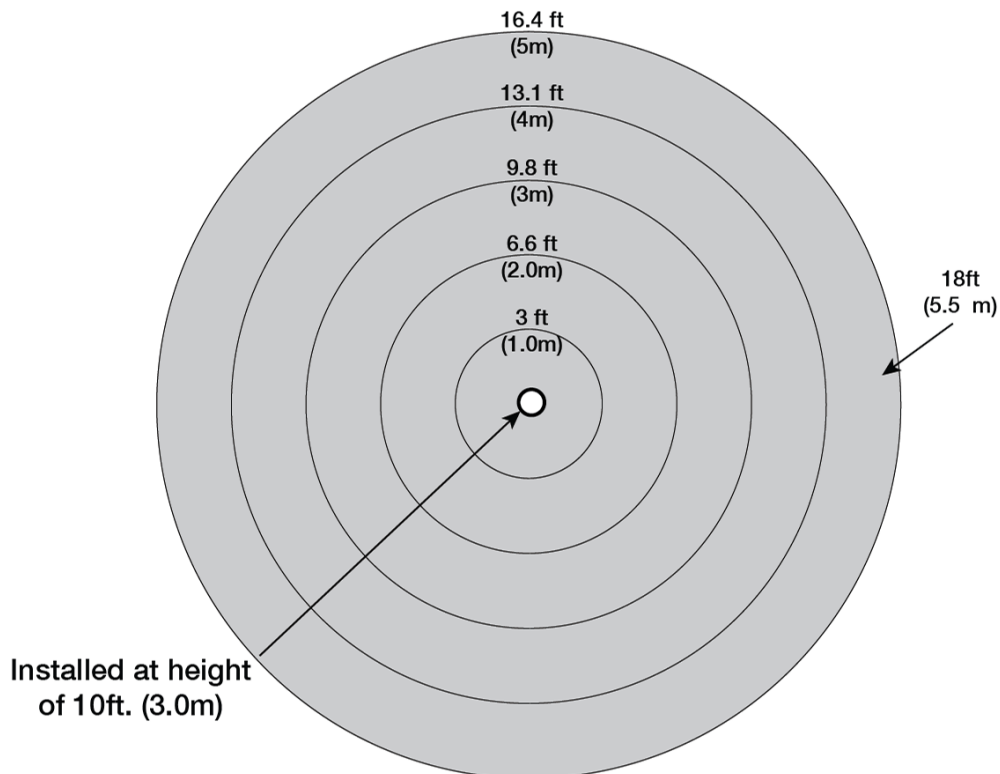
Leads:



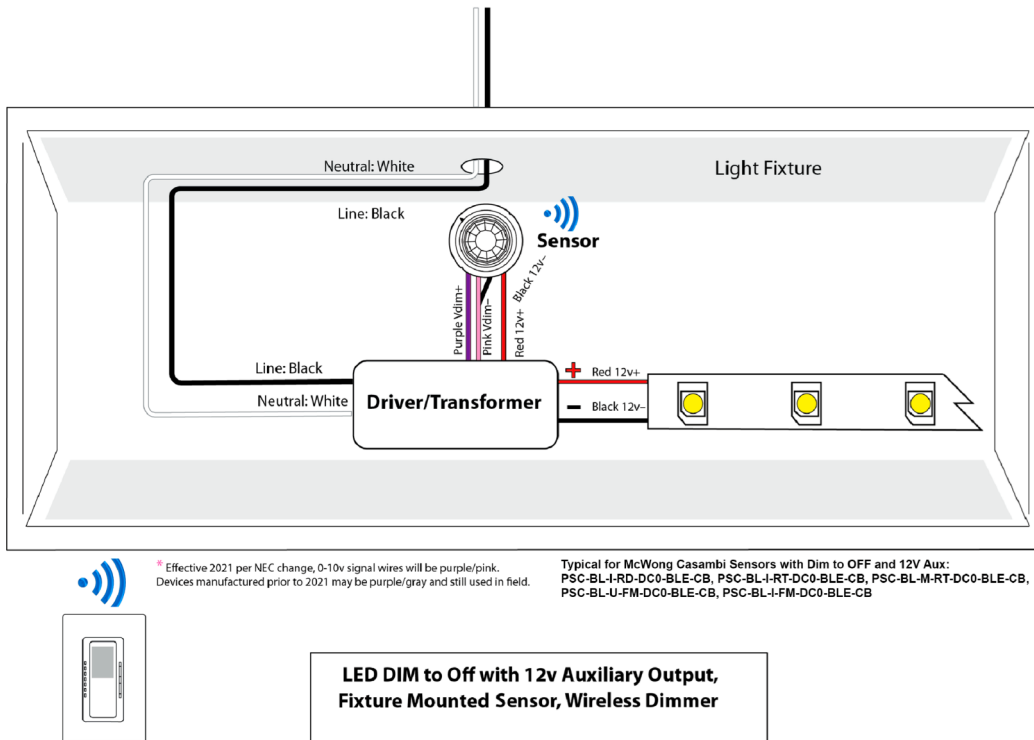
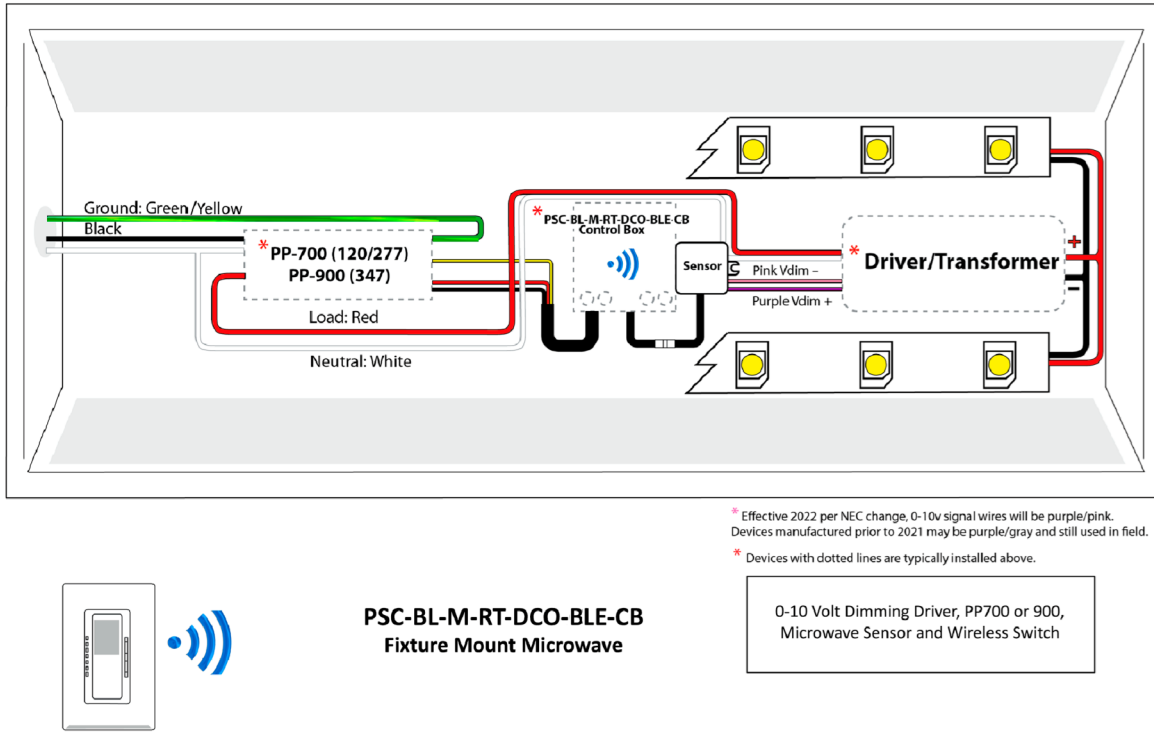
Detection Area for 3ft (0.9m) Side Mounting Height



Detection Area for 10ft (3m) Mounting Height



Wiring Diagram



How to Order

Model No.	Description	Input Voltage	Output
PSC-BL-M-RT-DC0-BLE-CB	Wireless Dimming Microwave Remote Mount Occupancy Sensor, Casambi Wireless Mesh	12-24VDC	0-10VDC Control High

For Line to Low Voltage Power Supply/Controller, please check mwConnect PacWave™ PSC-AC-PP-200/300/400/700C/800/900. Design and specifications are subject to change without notice.