

Casambi Mesh Ceiling Mounted Dual Technology Wireless Sensor

Overview

- Dual Tech Sensor with Passive Infrared (PIR) & Ultrasonic Detection
- Occupancy or Vacancy Operation Modes
- Compatible with Casambi Wireless Mesh Systems
- Surface Mount to Electrical Enclosure
- Features High and Low-End Trim Adjustment, Zoning & Continuous Dimming
- Suited for Mounting up to 12ft (3.7m)
- 12 to 24VDC Powered
- ioXt Alliance Cybersecurity Certification



Applications

The mwConnect Dual Tech Occupancy Sensor uses both PIR and ultrasonic detection methods to provide improved performance in areas where a PIR sensor alone will not suffice. This device is communicates wirelessly via Casambi Mesh technology allowing for wireless control of luminaires.

The sensor is suitable for a variety of indoor applications and mounts to a standard electrical junction box or enclosure.

Accessories

Power Pack: This sensor operates on 12-24VDC input power and requires a separate mwConnect power pack. See the mwConnect line of Power Packs and Power Supplies.

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.

See the mwConnect Casambi Commissioning User Manual for more information.

Summary

Product Type:
Dual Tech (PIR & Ultrasonic) Occupancy/
Vacancy Sensor

Input Voltage: 12 to 24 VDC

Current Consumption:
50 mA @ 12VDC
30 mA @ 24VDC

Mounting:
Ceiling mount up to 12 ft (3.7m)

PIR Sensor Range:
1600 ft² (150 m²)

Ultrasonic Sensor Range:
900 ft² (85 m²)

Max Bluetooth Range¹:
100 ft (30.4m)

Operating Temperature:
-22°F to 158°F (-30°C to 70°C)

Storage Temperature:
-40°F to 176°F (-40°C to 80°C)

Relative Humidity:
90-95% non-condensing

Color: White

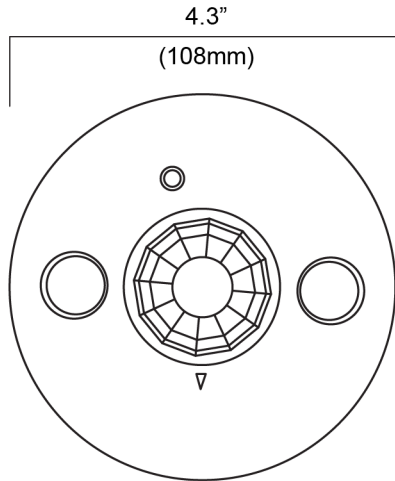
Warranty: 5 years

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

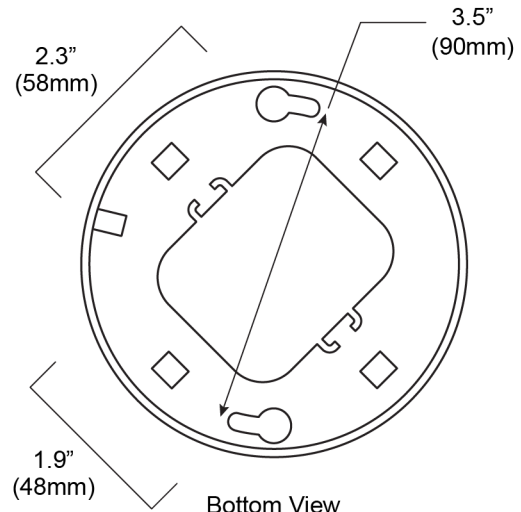
Project

Location/Type

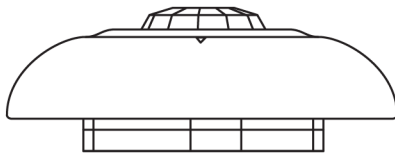
Physical Dimensions



Top View



Bottom View

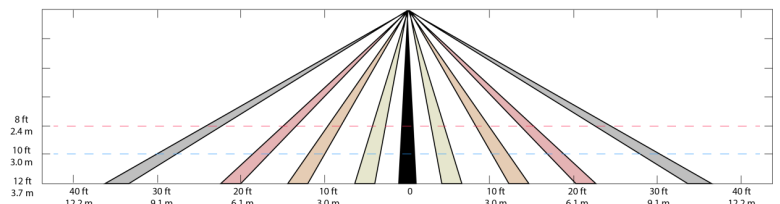
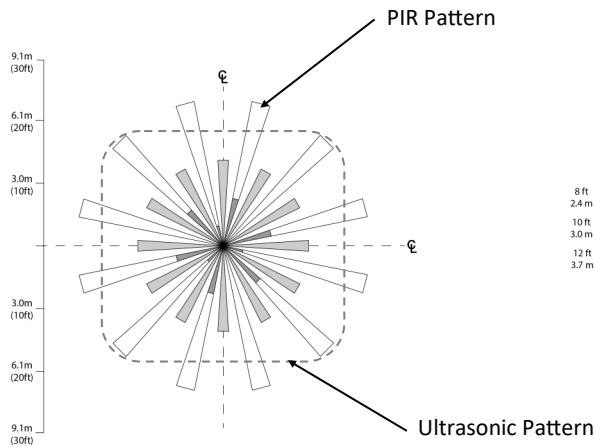


Side View

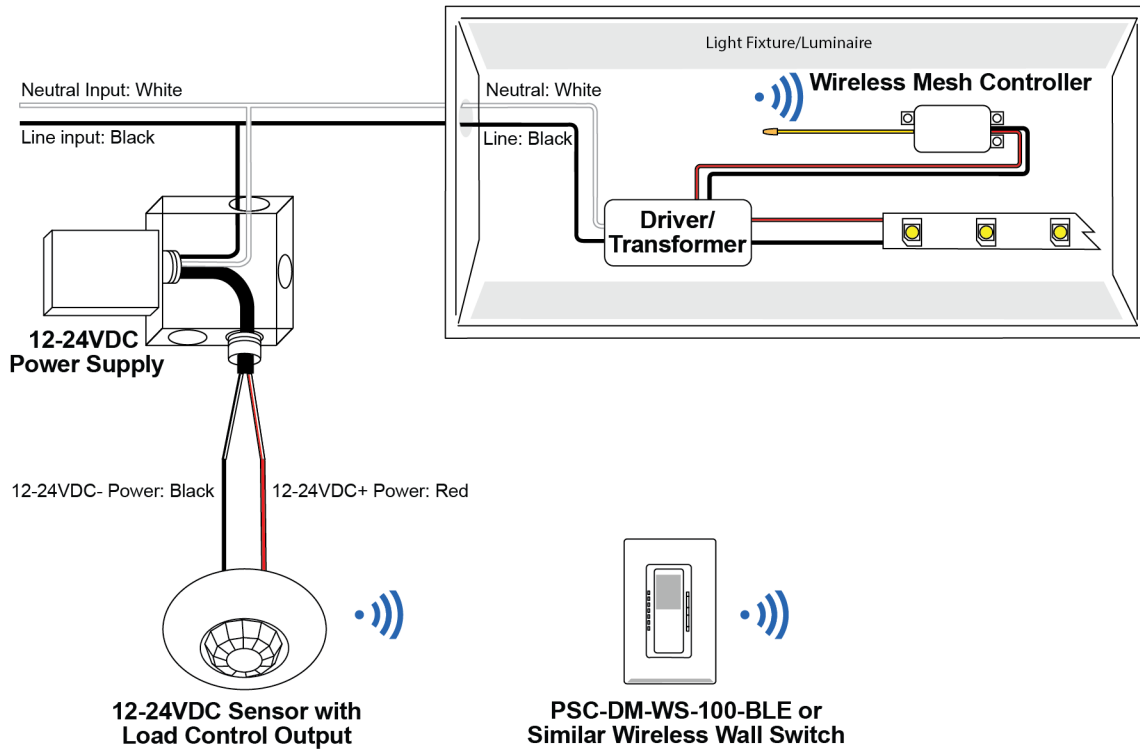
1.2"
(31mm)
0.4"
(9mm)

Note: Drawings
Not to Scale

Coverage Area



Example Application: Wireless Sensor with Power Supply



Wiring

Wire	Designation	Notes
Red	12-24VDC+ Power Input	Sensor Power Input
Black	Power Input Common	Sensor Power Input

Powering Multiple Sensors

Power Supply	Power Rating	Number of Wireless Sensors
PSC-AC-PP-100	24VDC, 150mA	5 Sensors Max
PSC-WCM-450-BLE-XX	12VDC, 300mA	6 Sensors Max

How to Order

Model No.	Description	Input Voltage
PSC-BL-D-CM-DC-BLE-CB-WT	Casambi Wireless Low Voltage Ceiling Mount Dual Tech Occupancy Sensor, White Finish	12-24VDC
PSC-BL-D-CM-DC-BLE-CB-BK	Casambi Wireless Low Voltage Ceiling Mount Dual Tech Occupancy Sensor, Black Finish	12-24VDC

Design and specifications are subject to change without notice.