

TruBlu Mesh Ceiling Mounted Dual Technology Wireless Sensor

Overview

- Bluetooth® NLC Certified
- Dual Tech Sensor with Passive Infrared (PIR) & Ultrasonic Detection
- Occupancy or Vacancy Operation Modes
- 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
- Conforms with DLC NLC5 Cybersecurity Standards



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 Bluetooth NLC Certified and communicates wirelessly via Bluetooth 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

TruBlu™ Mesh Controls:

The sensor is a Bluetooth NLC certified device by the Bluetooth SIG and offers true multi-vendor interoperability. Configuration of the device and mesh network is accomplished via the TruBlu web portal or iOS mobile app. The app is used for initial setup and subsequent parameter adjustment.

Advanced functionality such as energy monitoring, and demand response is available with the TruBlu Gateway (ordered separately).

See TruBlu 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

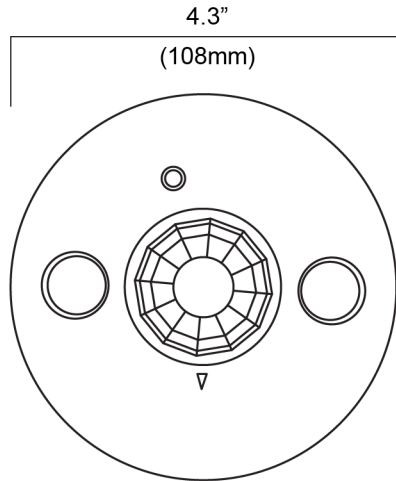
Warranty: 5 years

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.

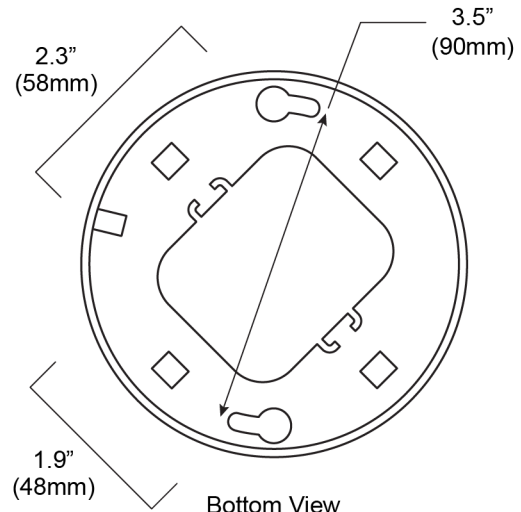
Project

Location/Type

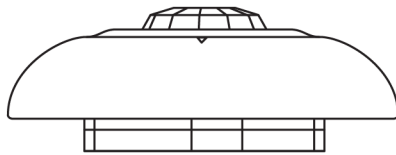
Physical Dimensions



Top View



Bottom View

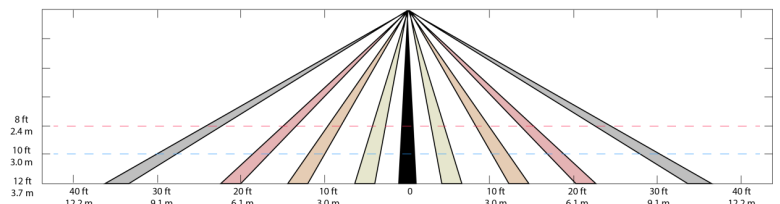
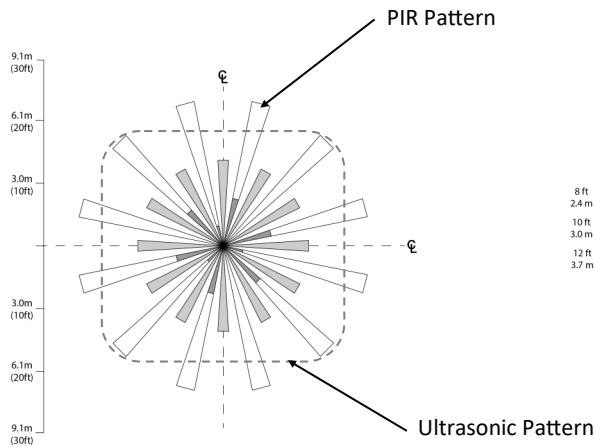


Side View

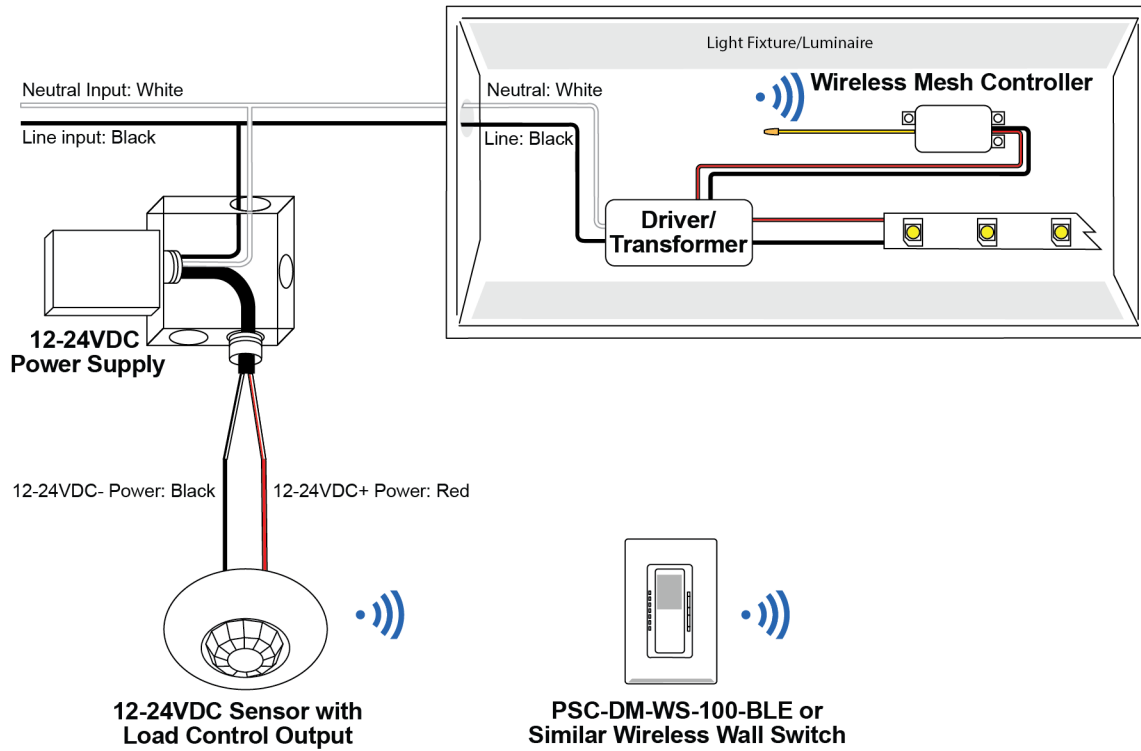
1.2"
(31mm)
0.4"
(9mm)

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-SR-WT	Trublu Wireless Low Voltage Ceiling Mount Dual Tech Occupancy Sensor, White Finish	12-24VDC
PSC-BL-D-CM-DC-BLE-SR-BK	Trublu Wireless Low Voltage Ceiling Mount Dual Tech Occupancy Sensor, Black Finish	12-24VDC

Design and specifications are subject to change without notice.