DATA SHEET

Wireless PIR Ceiling Mount Sensor

Suitable for indoor use only

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E341446

Overview

- Passive infrared occupancy sensor
- Casambi Wireless Mesh
- Ceiling Mount
- Mounting height up to 12ft (3.6m).
- LED Motion indicator
- 360° Coverage Pattern
- ioXt Alliance cybersecurity certification

Applications

mwConnect's PIR ceiling occupancy sensor (PSC-ND-I-CM-DC-BLE-CB) uses digital PIR Motion Detector Architecture and passive infrared (PIR) technology for improved detection coverage for ceiling mount applications.

The sensor is suitable for a variety of indoor applications. It supports ceiling mounts up to 12ft high. 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.

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.

Accessories

Power Pack: The PSC-ND-I-CM-DC-BLE-CB operates on 12-24VDC input and requires a separate mwConnect PacWave™ power pack. See mwConnect PacWave™ Power Pack data sheets.

Alternatively, the sensor can also operate with a driver that has a12V auxiliary output.

Summary

Sensor Type:
PIR Occupancy/Vacancy sensor

Input Voltage | Current Consumption:
12-24 VDC | 50 mA

Mounting Height:
Ceiling mount up to 12ft (3.6m)

Max Sensor Range
37ft (11.3m) 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

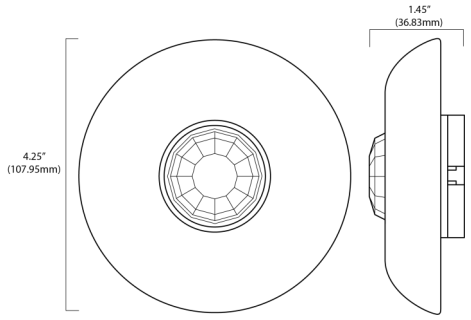
Color: White or Black

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 Bluetooth range accuracy.

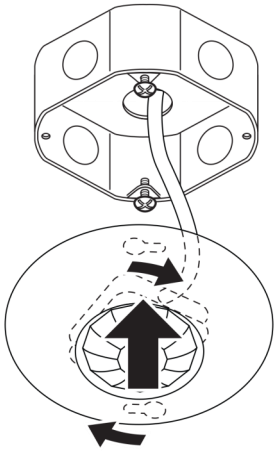
Project	
Location/Type	

Physical Dimensions

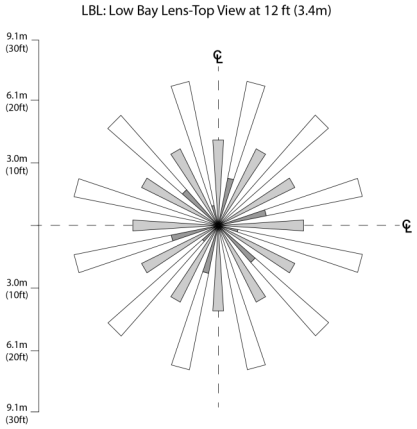


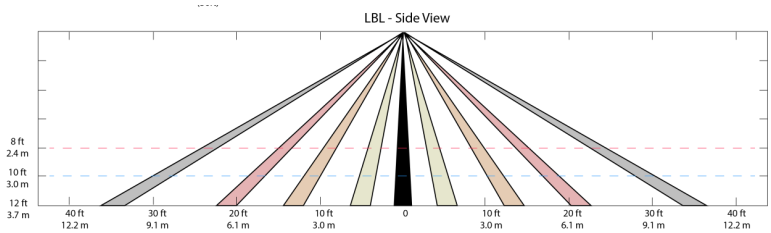
Drawings are Not to Scale

Installation



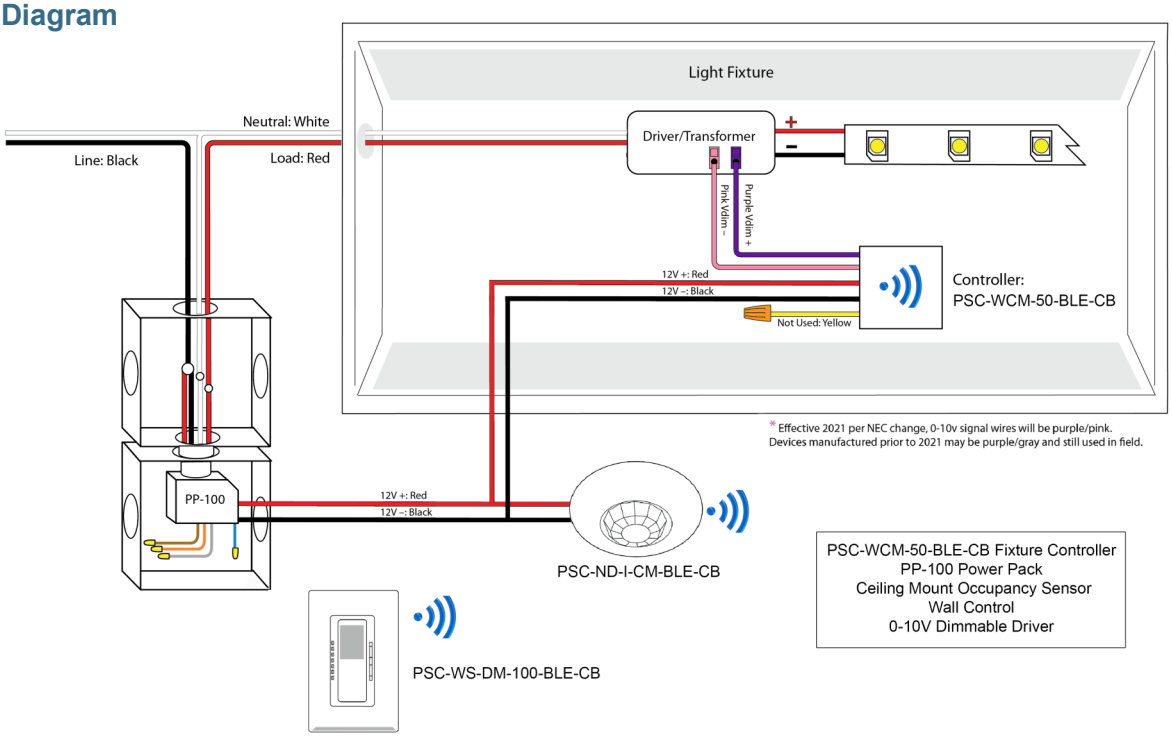
Coverage Pattern



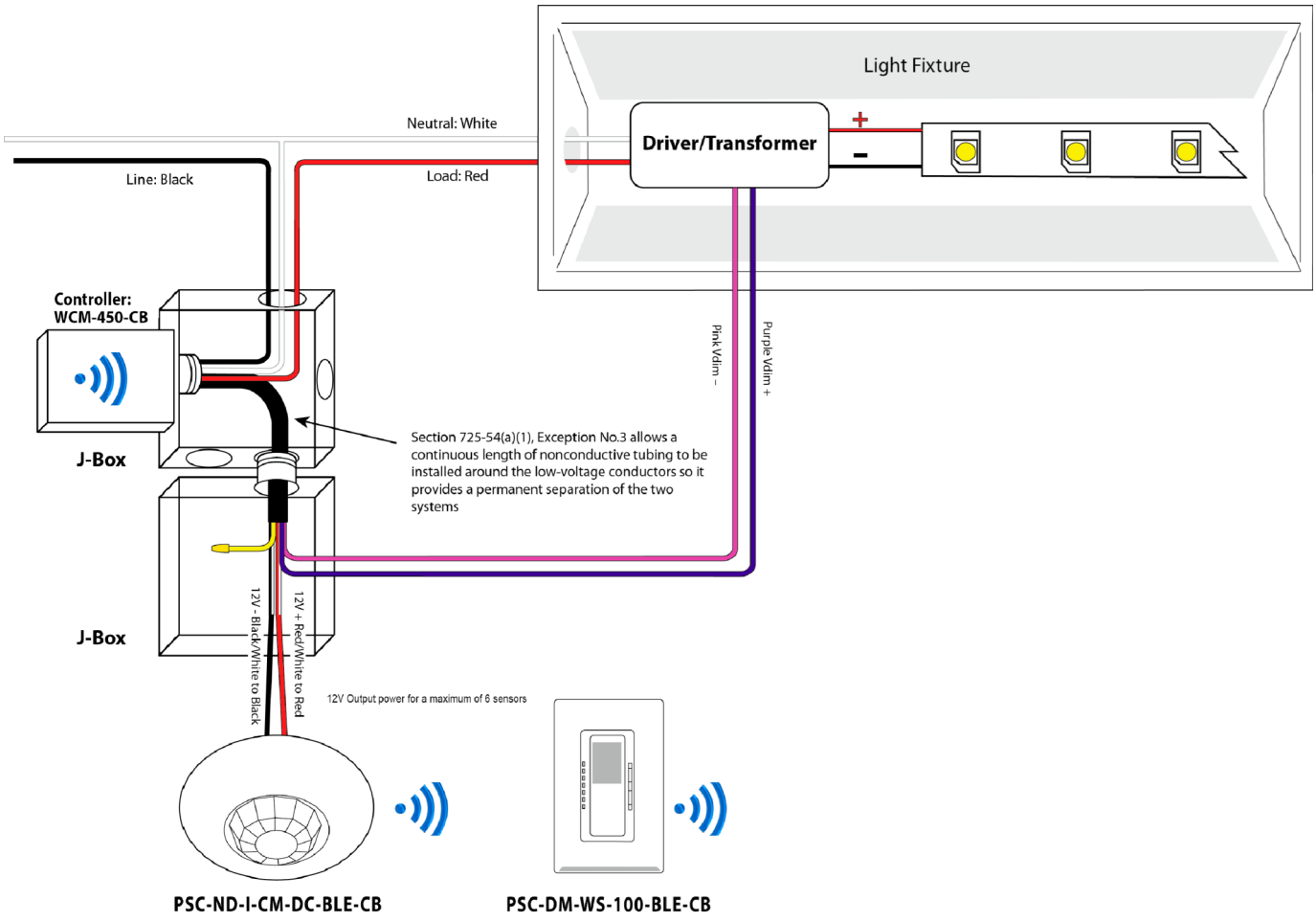


Note: The application/absolute range of the sensor is subject to variation because of different types of clothing, backgrounds, and ambient temperature. Therefore, ensure *that* the lens is properly oriented along routes with expected traffic and conduct testing along those routes.

Wiring Diagram



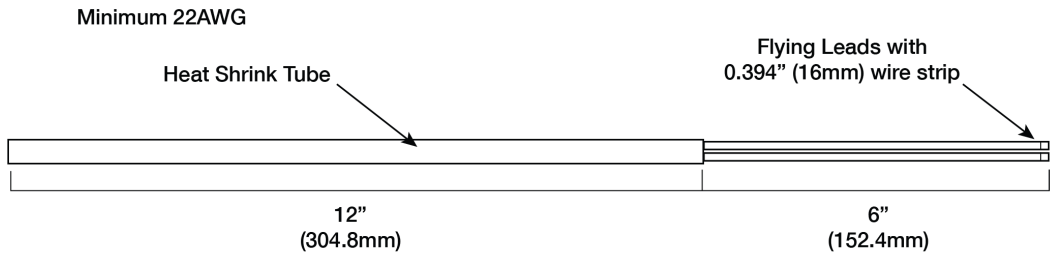
Wiring Diagram



Input Line Black, Input Common White, Load Red	12AWG, 180+/-20mm, Strip 10mm Tin Plated
Output 12V+ Black/White, Output 12V– Red/White, Sen Input Yellow, 0-10V+ Purple , 0-10V– Pink	22AWG, 180+//-20mm, Strip 10mm Tin Plated

WCM-450 Controller
PIR Ceiling Sensor
Wireless Wall Dimmer
0-10V Dimming Driver

Leads:



How to Order

Model No.	Description	Input Voltage
PSC-ND-I-CM-DC-BLE-CB-WH	Passive Infrared (PIR), Ceiling Mount Occupancy Sensor, Casambi Wireless Mesh, White	12-24VDC
PSC-ND-I-CM-DC-BLE-CB-BK	Passive Infrared (PIR), Ceiling Mount Occupancy Sensor, Casambi Wireless Mesh, Black	12-24VDC

Design and specifications are subject to change without notice.