XICATO®

Wireless Ceiling-mount Occupancy Sensor
PSC-ND-I-CM-DC-BLE-XI

Overview

Passive infrared occupancy sensor

Bluetooth® Xicato Xmesh compatible

Ceiling Mount

Mounting height up to 12ft (3.6m)

LED Motion indicator

Suitable for indoor use only

E341446

Applications

Xicato's PIR ceiling occupancy sensor (PSC-ND-I-CM-DC-BLE-XI) uses digital passive infrared (PIR) Motion Detector technology for improved detection and 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.

Accessories

Power Pack: The PSC-ND-I-CM-DC-BLE-XI operates on 12-24V DC input and requires a separate power pack. Check with Xicato for compatible options.

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

Operation

Xicato Xmesh™ controls provide a seamless Bluetooth based mesh control system for a room, floor, building or site. The controls system includes lights, switches, load controllers as well as gateways for easy integration with a BMS or other lighting control systems as well as cloud connectivity for remote monitoring and/or control.

Key features of Xicato's Xmesh™ controls system are auto-discovery of new devices making it easy to expand your system with both devices and capabilities after initial installation.
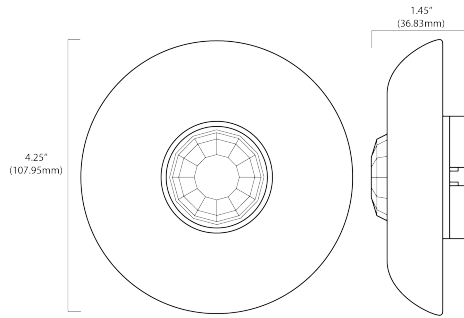
See the Xicato Controls Platform Manual for more information.

Specifications

Sensor Type: PIR occupancy 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 Bluetooth 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

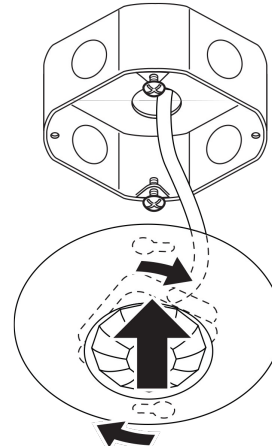**Color**: White

Warranty: 5 years

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.
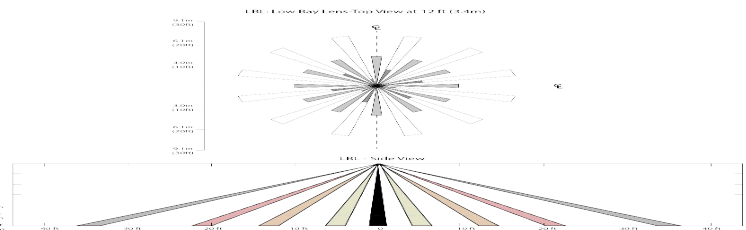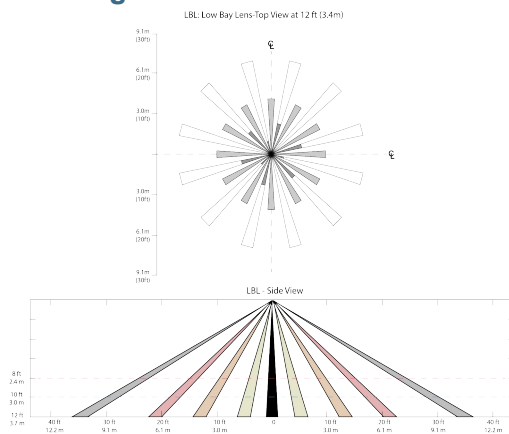
Physical Dimensions

1.45"
(36.83mm)

4.25"
(107.95mm)

Drawings are Not to Scale

Installation

Coverage Pattern

LBL: Low Bay Lens-Top View at 12 ft (3.4m)

9.1 m
(30ft)
6.1 m
(20ft)
3.0 m
(10ft)

3.0 m
(10ft)
6.1 m
(20ft)
9.1 m
(10ft)

LBL - Side View

8 ft
2.4 m
10 ft
3.0 m
12 ft
3.7 m

40 ft   30 ft   20 ft   10 ft   0   10 ft   20 ft   30 ft   40 ft
12.2 m   9.1 m   6.1 m   10 m   10 m   6.1 m   9.1 m   12.2 m

LBL: Low Bay Lens-Top View at 12 ft (3.4m)

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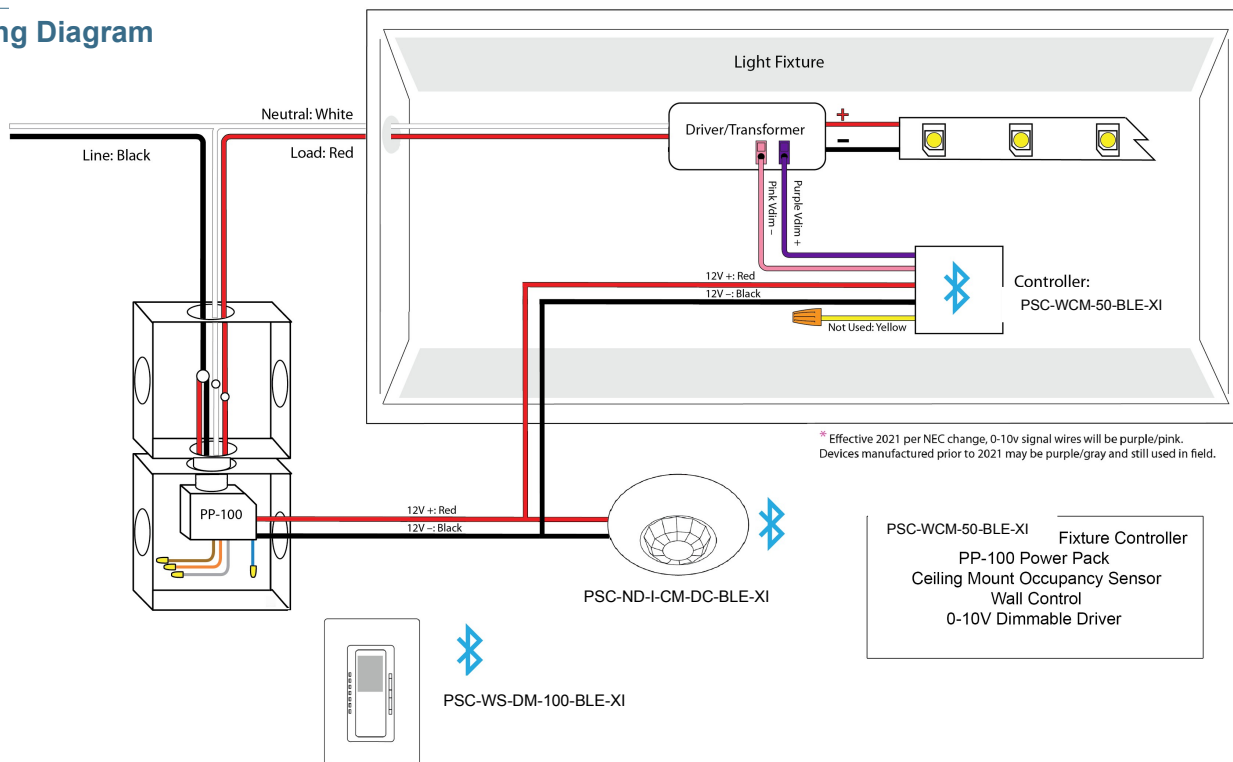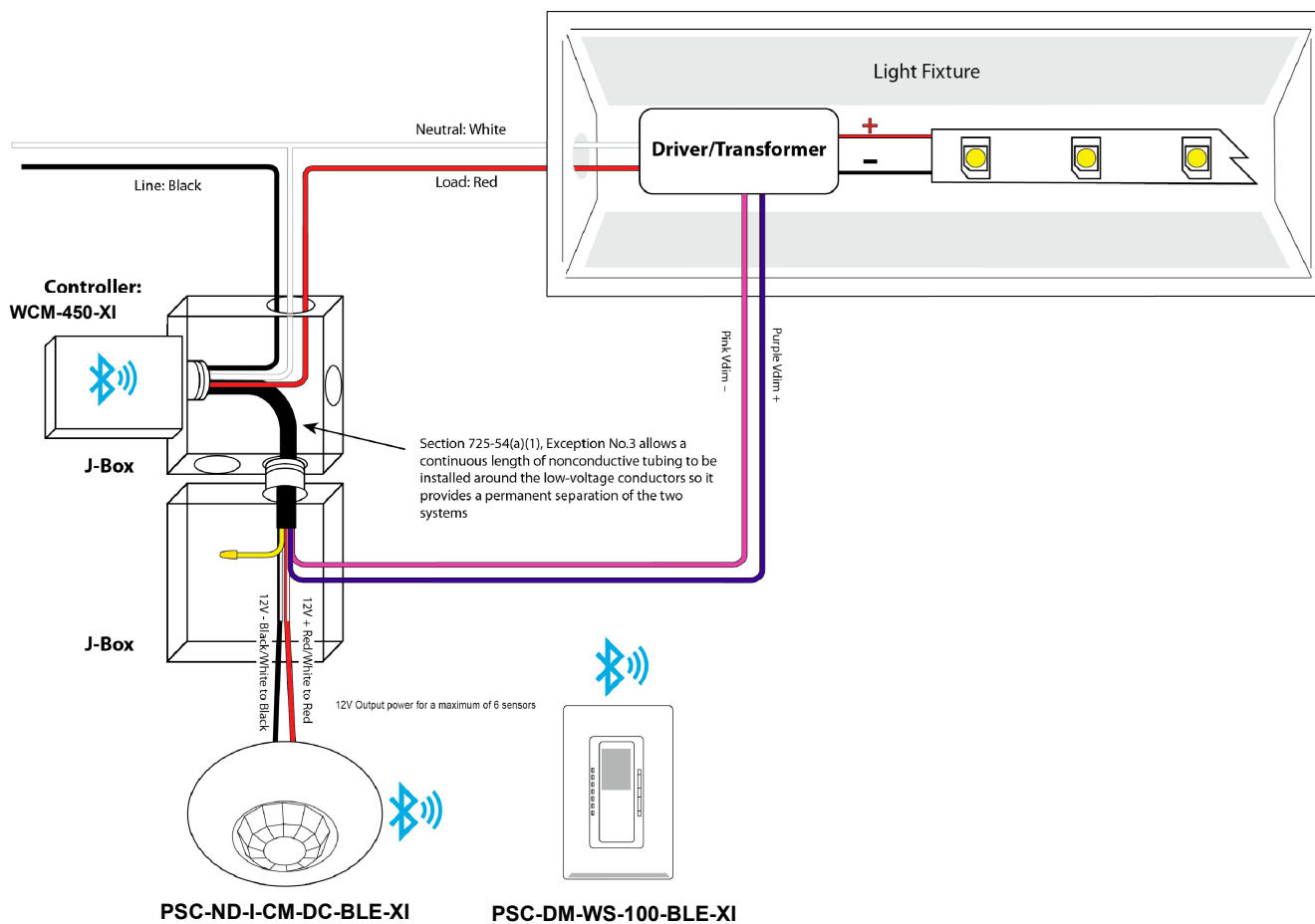
Note: The application/absolute range of the sensor is subject to variation because of different types of clothing, backgrounds, and ambient temperature. Therefore, ensure *that* the lens is properly oriented along routes with expected traffic and conduct testing along those routes.

Wiring Diagram

Light Fixture

Neutral: White

Line: Black

Load: Red

Driver/Transformer

+

−

Pink Vdim −

Purple Vdim +

12V +: Red

12V −: Black

Controller:
PSC-WCM-50-BLE-XI

Not Used: Yellow

PP-100

12V +: Red

12V −: Black

PSC-ND-I-CM-DC-BLE-XI

PSC-WS-DM-100-BLE-XI

*Effective 2021 per NEC change, 0-10v signal wires will be purple/pink. Devices manufactured prior to 2021 may be purple/gray and still used in field.

PSC-WCM-50-BLE-XI	Fixture Controller
PP-100	Power Pack
	Ceiling Mount Occupancy Sensor
	Wall Control
	0-10V Dimmable Driver

Wiring Diagram

Light Fixture

Driver/Transformer

Neutral: White

Line: Black

Load: Red

**Controller:
WCM-450-XI**

J-Box

Section 725-54(a)(1), Exception No.3 allows a continuous length of nonconductive tubing to be installed around the low-voltage conductors so it provides a permanent separation of the two systems

J-Box

Pink Vdim −

Purple Vdim +

12V − Black/White to Black

12V + Red/White to Red

12V Output power for a maximum of 6 sensors

PSC-ND-I-CM-DC-BLE-XI

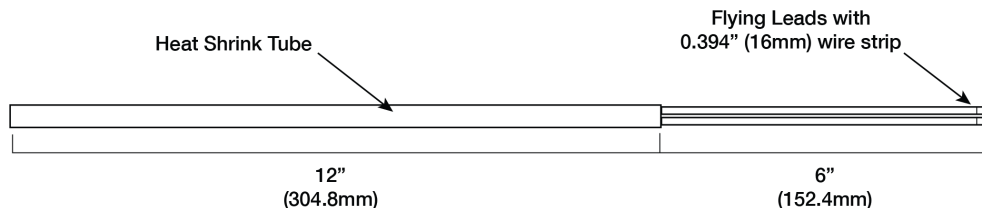**PSC-DM-WS-100-BLE-XI**

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 Celing Sensor
Wireless Wall Dimmer
0-10V Dimming Driver**

Leads:

Minimum 22AWG

Heat Shrink Tube

Flying Leads with
0.394" (16mm) wire strip

12"
(304.8mm)

6"
(152.4mm)

Tolerance ±1" (25.4mm)

How to Order

PSC-ND-I-CM-DC-BLE-XI   Passive Infrared (PIR) Ceiling Mount Occupancy Sensor   12-24VDC

Line to Low Voltage Power Supply/Controller, please check with Xicato for compatible options.

Design and specifications are subject to change without notice.