DATA SHEET

Wireless Dimming Fixture Mount PIR-Daylight Sensor

Overview

- Bluetooth® NLC Certified
- PIR and Daylight sensor
- Mounts in Fixture
- High-End Trim, Zoning, Continuous Dimming
- LED Motion indicator
- Active High for Relay drive
- Mounting height of 9ft (2.7m)
- Conforms with DLC NLC5 Cybersecurity Standards

Suitable for indoor use only

E341446

Applications

The PSC-BL-I-RD-DC0-BLE-SR uses digital PIR Occupant Sensor Architecture and Dual Element passive infrared (PIR) technology for improved detection coverage for indoor fixture mount applications. Ideal for LLLC (Luminaire Level Lighting Control) that are in a larger area like open offices, cafeterias, corridors where it is desired to maximize granular energy savings.

The PSC-BL-I-RD-DC0-BLE-SR also has an integral daylight sensor for daylight harvesting applications.

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

The sensor is suitable for a variety of indoor applications. It supports fixture mounting heights up to 9 ft (2.7m).

*For dim to off, mwConnect PacWave™ Power Pack or LED dimming driver capable of dimming to off is required.

Sensor Operation

TruBlu™ Mesh: 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 optional TruBlu Gateway.

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

Relay Control: There is also an additional Control High output that can be used to trigger relays or other control circuitry.

See the TruBlu Commissioning User Manual for more information.

Accessories

Power Pack: The PSC-BL-I-RD-DC0-BLE-SR operates on 12-24VDC input and requires a separate mwConnect PacWave™ power pack.

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

Summary

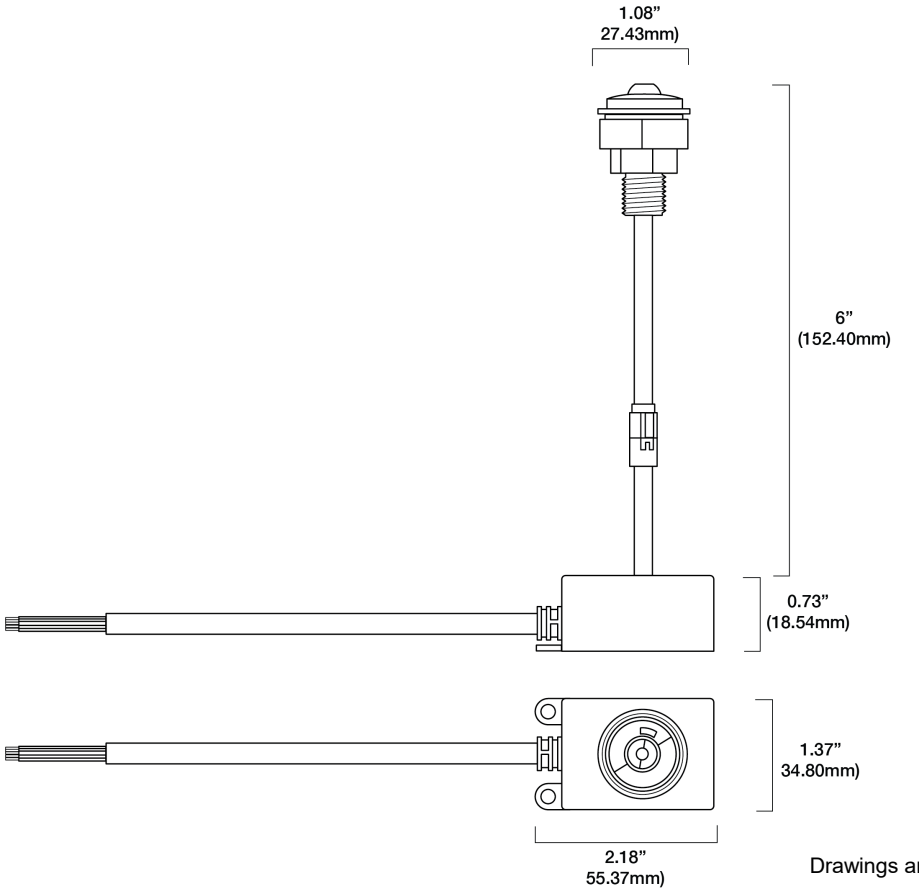
Sensor Type: PIR Occupancy /Vacancy and Daylight Sensor
Input Voltage | Current Consumption: 12-24 VDC | 50 mA
0-10V Output: 30mA
Output: Active High Vin-2.5V 30mA source
Mounting Height: Fixture mounting height at 9ft (2.7m)
Max Sensor Range: 6ft (1.8m) radius
Max Bluetooth Range [1]: 100ft (30.4m)
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

Note:

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

Project	
Location/Type	

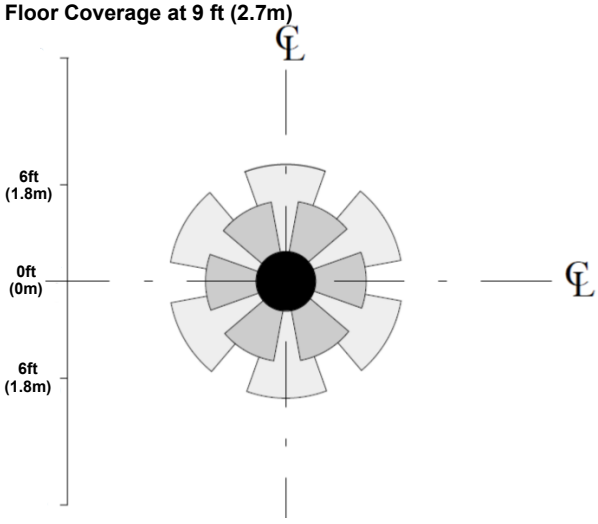
Physical Dimensions



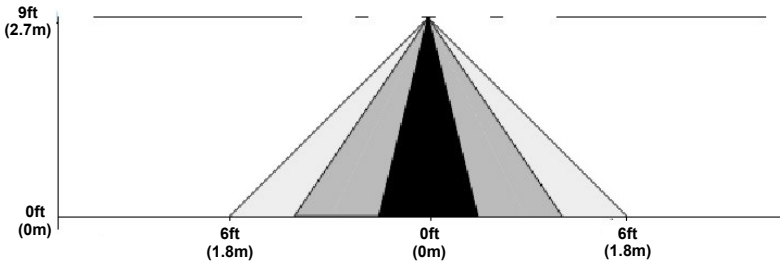
Drawings are Not to Scale

Detection Area

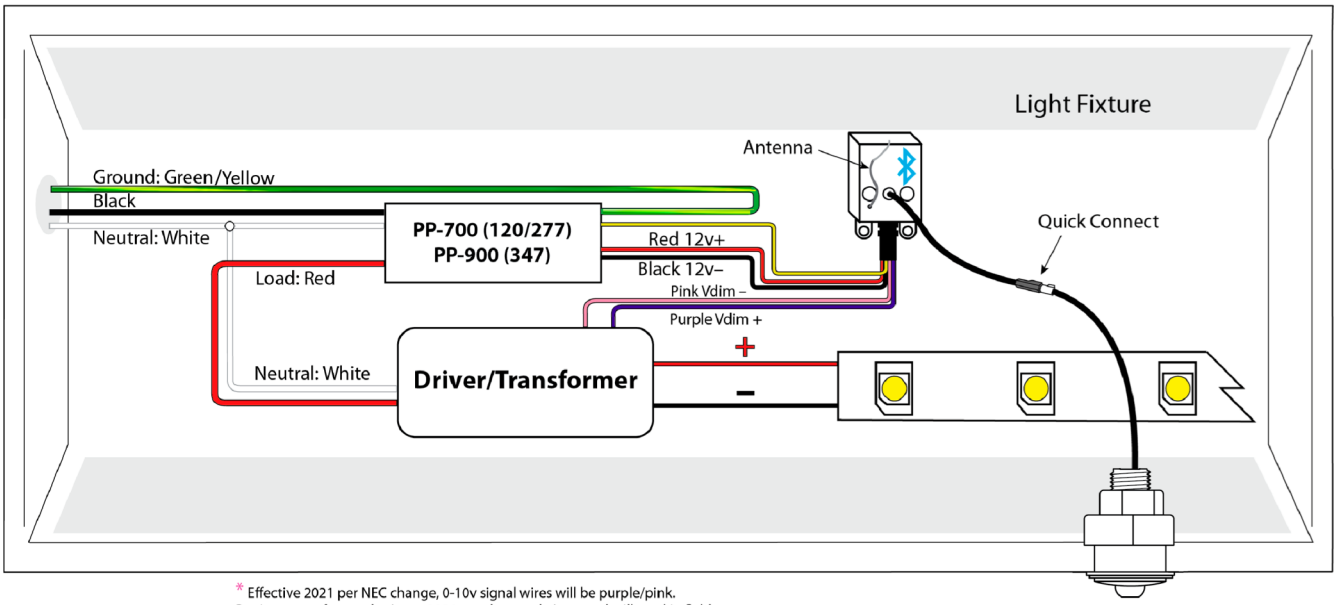
Floor Coverage at 9 ft (2.7m)



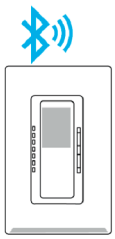
Side View



Wiring Diagram and Fixture Mounting



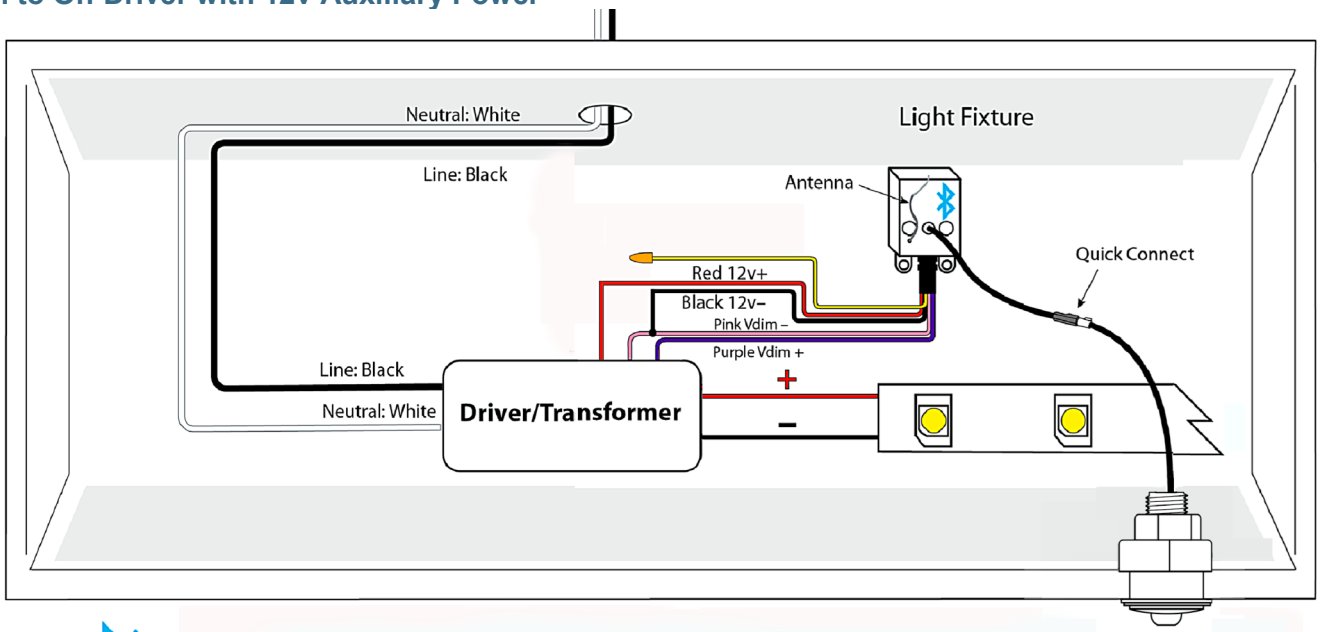
* Effective 2021 per NEC change, 0-10v signal wires will be purple/pink.
Devices manufactured prior to 2021 may be purple/gray and still used in field.

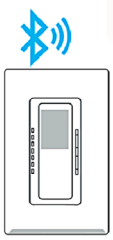


0-10 Volt Dimming Driver, PP-700 or PP-900,
PIR /Daylight Sensor

PSC-BL-I-RD-DC0-BLE-SR
Fixture Mount PIR/Daylight Sensor

Dim to Off Driver with 12v Auxiliary Power

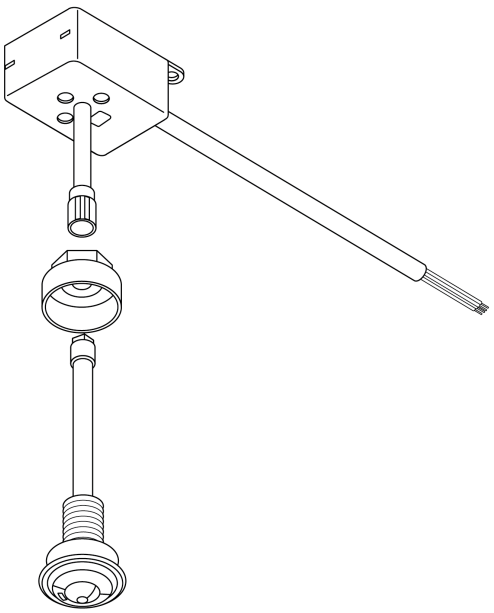


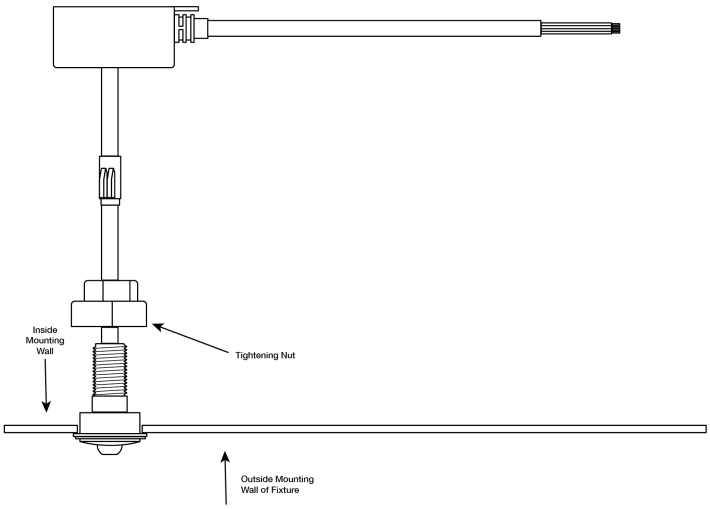


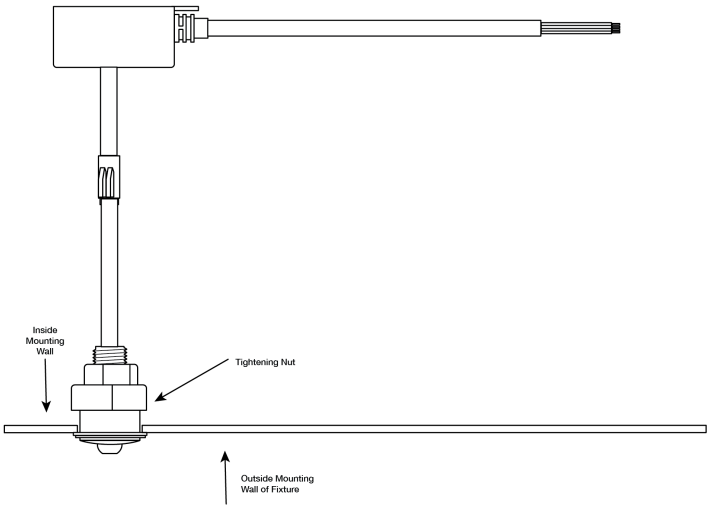
Typical for McWong Fixture Mount Sensors with DIM to OFF and 12V Auxillary Power:
PSC-BL-I-RD-DC0-BLE-SR, PSC-BL-I-RT-DC0-BLE-SR

LED DIM to Off with 12v Auxilliary Output
Fixture Mount Sensor, Wireless Dimmer

Installation Fixture Mount



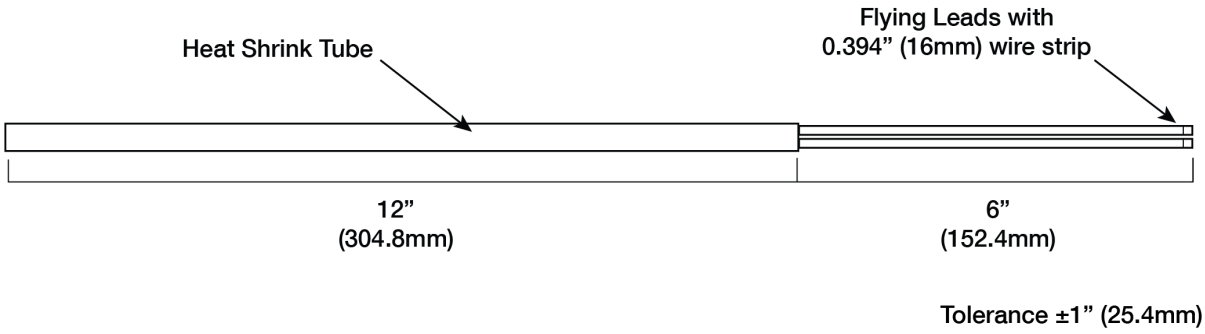




For Ceiling Mount Version see data sheet PSC-BL-I-RD-DC0-BLE-SR-CM

Leads:

Minimum 22AWG



Tolerance ±1" (25.4mm)

How to Order

Model No.	Description	Input Voltage	Dimming Output	Output
PSC-BL-I-RD-DCO-BLE-SR	**Passive** Infrared (PIR) Fixture Mount Occupancy Sensor and Daylight Sensor TruBlu,™ Silvair technology partner	12-24VDC	0-10V, 30mA	Active High

For Line to Low Voltage Power Supply/Controller, please see mwConnect PacWave™ Power Pack data sheets.

Design and specifications are subject to change without notice.