Wireless Indoor Daylight Sensor

Overview

- Closed Loop Daylight Sensor
- Sensor Response Aligned with Human Visual Response Range
- Mounts on Ceiling
- Bluetooth® SIG Mesh
- 0-100 fc Range

- LED Status Indicator Light
- Lighted Trim
- Zoning, Continuous Dimming,
- Conforms with DLC NLC5 Cybersecurity Standards

ETL Intertek · FC · DLC QPL LISTED · ✆ Bluetooth®

Applications

mwConnect's Wireless Daylight Sensor (PSC-ND-P-CM-DC-BLE-SR) provides automatic lighting control for a variety of indoor applications. It can be mounted on any flat surface such as ceiling or fixture.

Typical applications include classrooms, private offices, conference rooms, lobbies, corridors and any indoor areas where daylight harvesting control is needed.

Accessories

Power Pack: The PSC-ND-P-CM-DC-BLE-SR operates on 12-24 VDC input and requires a separate power pack such as the mwConnect PacWave™ PSC-AC-PP-400/800.

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

Sensor Operation

TruBlu™ Mesh Controls: Qualified by Bluetooth SIG for its Bluetooth Mesh 1.0.1 specification, the sensor connects to a Bluetooth mesh network and is accessed via the TruBlu web portal or mobile app for configuration as well as subsequent parameter adjustments.

User Interface: Using the mobile app, end users can then program length of delay time/wait time (this delay prevents the system from adjusting levels as a cloud passes by or another short environmental change happens), ramp and fade time, and other settings using these commissioning tools.

Dimming: The sensor transmits to a TruBlu™ Fixture Controller to control LED drivers.

See TruBlu™ Commissioning User Manual for more information.

Summary

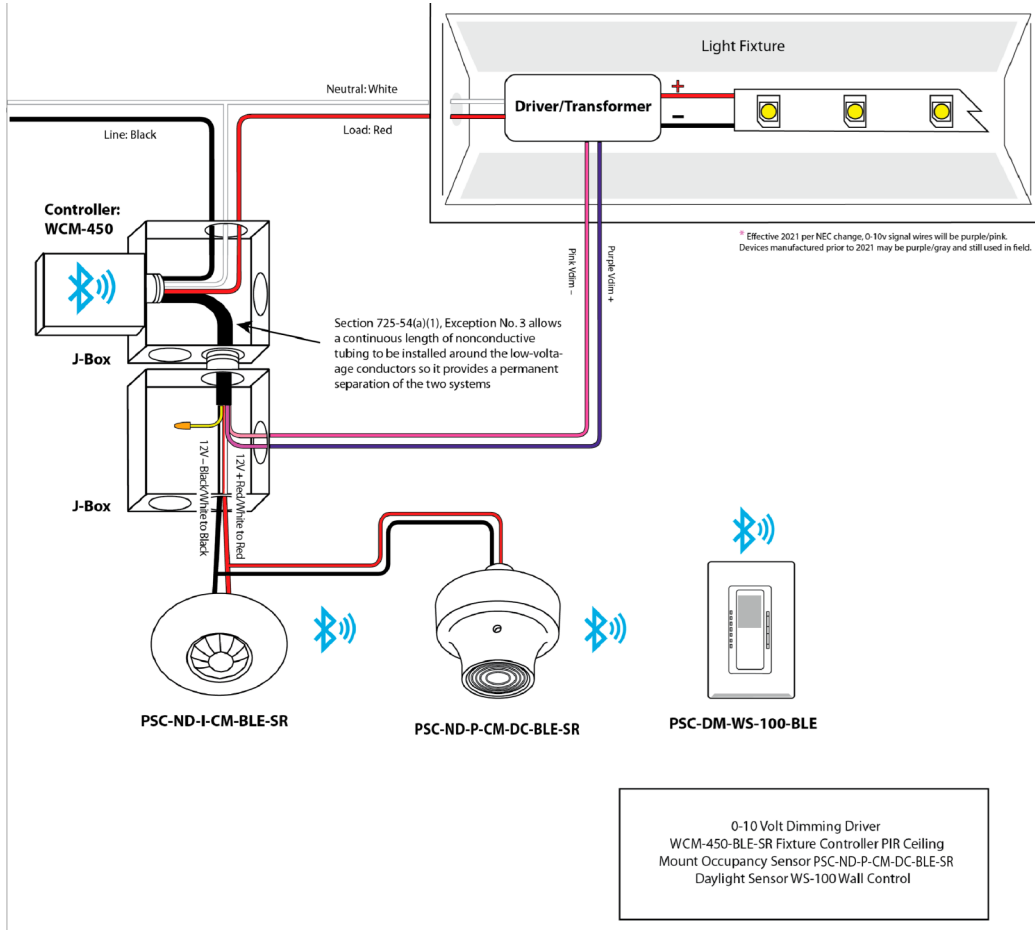| Summary	
Sensor Type: Daylight Sensor	
Input Voltage | Current Consumption: 12-24 VDC | 40 mA max	
Photodiode: Sensor-Human Visual Response Range Aligned	
Mounting: Ceiling	
Mounting Height: 12 Ft nominal	
Measuring Range: 0-100 fc (0-1076 Lux)	
Max Bluetooth Range[1] 100ft (30.4m)	
Operating Temperature: -20° C to 55°C	
Storage Temperature: -40° C to 80°C	
Relative Humidity: 90-95% non-condensing at 30°C	
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	

Wiring Diagram

Light Fixture

Driver/Transformer

Neutral: White

Line: Black

Load: Red

Controller: WCM-450

J-Box

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

Pink Vdim –

Purple Vdim +

* 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.

12V– Black/White to Black

12V+ Red/White to Red

PSC-ND-I-CM-BLE-SR

PSC-ND-P-CM-DC-BLE-SR

PSC-DM-WS-100-BLE

0-10 Volt Dimming Driver
WCM-450-BLE-SR Fixture Controller PIR Ceiling Mount Occupancy Sensor PSC-ND-P-CM-DC-BLE-SR Daylight Sensor WS-100 Wall Control
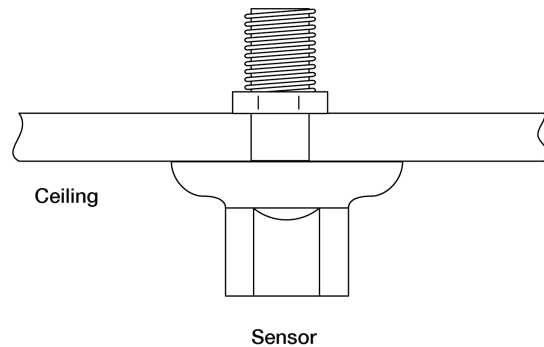
Recommended Practice

Daylight Sensors should be located in the primary or secondary (if desired) daylight zone as directed by local energy code. Sensor should be pointed down at a light colored reflective surface, like a desk.

Physical Dimensions
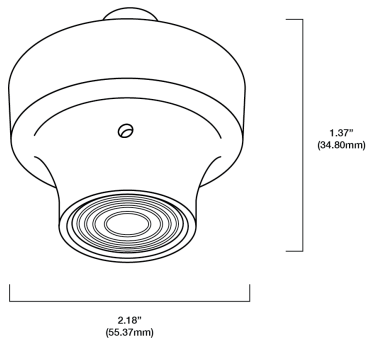
Drawings are Not to Scale

1.37" (34.80mm)

2.18" (55.37mm)

Installation

Ceiling

Sensor

How to Order

Model No.	Description	Input Voltage	Output
PSC-ND-P-CM-DC-BLE-SR	Daylight Sensor, with Bluetooth TruBlu™ Mesh. Technology Partner Silvair	12-24VDC	Bluetooth Mesh Command

For Line to Low Voltage Power Supply/Controller, please check mwConnect PSC-AC-PP-200/300/400/700C/800/900.

Design and specifications are subject to change without notice.