

PSC-BL-M-RT-DC0-BLE-SR | Wireless Dimming Microwave Sensor

Overview

- Microwave sensor 24.11 GHz
- Bluetooth® SIG mesh
- Photocell control, High-End Trim, Zoning, Continuous Bi-level Dimming
- Energy Monitoring and Scheduling with TruBlu™ Gateway
- Active High/Low outputs for Relay drive
- 33ft (10m) diameter coverage pattern, at 10ft (3m) mounting height
- Technology Partner SILVAIR



Suitable for indoor and outdoor use

Applications

The PSC-BL-M-RT-DC0-BLE-SR actively emits microwaves at 24.11 GHz frequency and uses the Doppler shift of the return waves to detect motion.

The PSC-BL-M-RT-DC0-BLE-SR is a Class 2 Device designed to satisfy new CA Title 24 requirements for bi-level dimming* of lighting fixtures.

The sensor is suitable for a variety of indoor applications. It supports fixture and ceiling mounts up to 10ft (3m) 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.

*For dim to off, Pacific PSC-AC-PP-200/700C/900 Power Pack or LED dimming driver capable of dimming to off is required.

Sensor Operation

TruBlu™ Mesh Controls: Qualified for Bluetooth Mesh 1.0.1 (SIG), the sensor can pair with an iOS application to allow initial setup and subsequent sensor adjustments. The mobile application enables adjustment of sensor parameters such as time delay, dim level, daylight detection, and more. Additionally, features such as parameter profiles, manual dim control, and real-time feedback from the sensor can speed up configuration and provide custom user control.

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

Relay Control: Two additional High and Low control outputs can be used to trigger relays or other control circuitry.

See TruBlu™ Commissioning User Manual for more info.

Accessories

Power Pack: The PSC-BL-I-RT-DC0-BLE-SR operates on 12-24 VDC input and requires a separate power pack such as the PacWave™ PSC-AC-PP-200/400/700C/800/900.

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



Summary

Sensor Type:
Microwave occupancy sensor

Input Voltage | Current Consumption:
12-24 VDC | 85 mA

0-10V Output: 100 mA

High: Vin-2.5 V 100 mA source

Low: 100 mA sink current

Mounting Height:
Fixture or ceiling mount 10ft (3m)

Max Range¹ Ceiling/Wall Mount:
16ft (5m) radius

Max Bluetooth Range²:
49 ~ 65ft (15 ~ 20m)

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. Results may vary based on mounting height, angle, material, and line of sight. If installed inside enclosure lens, detection range adversely affected by the type and density of the material used in the fixture lens or cover. It is recommended to conduct testing for detection range accuracy.

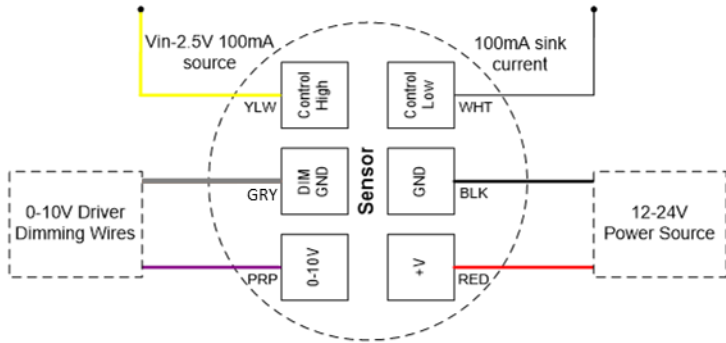
2. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

How to Order

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

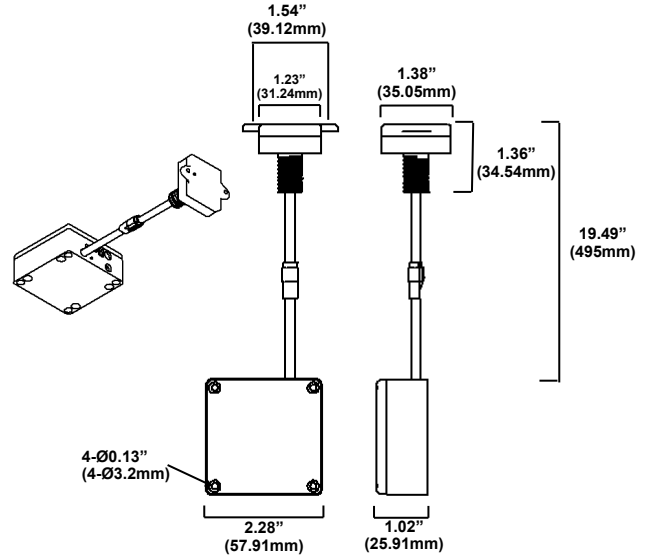
Model No.	Description	Input Voltage	Output
PSC-BL-M-RT-DC0-BLE-SR	Bi-Level Microwave Remote Mount Occupancy Sensor, with Bluetooth Mesh in TruBlu™	12-24VDC	0-10VDC Control High Control Low

Wiring Diagram



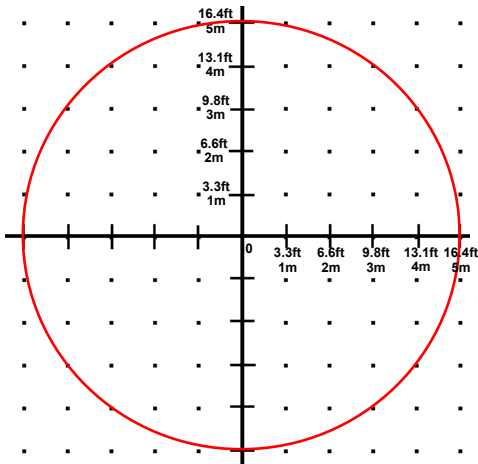
Note: If using a power pack other than PSC-AC-PP-200, connect either Control Hi or Control Low, depending on power pack relay circuitry.

Physical Dimensions

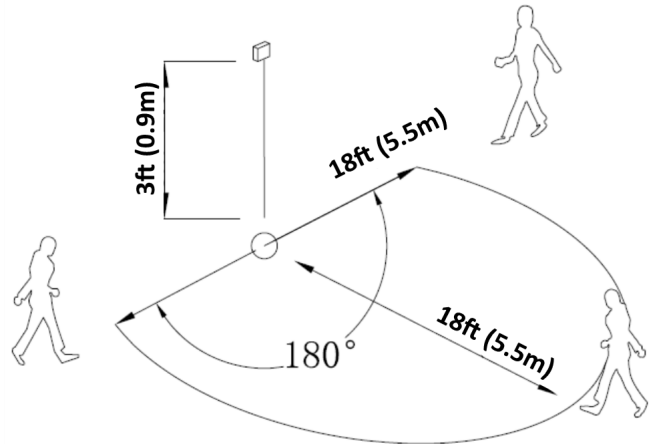


Drawings are Not to Scale

Detection Area for 10ft (3m) Mounting Height



Detection Area for 3ft (0.9m) Sideways Mounting Height (Bollards)



Leads: Minimum 22AWG



Design and specifications are subject to change without notice.