PSC-ND-I-CM-DC-BLE | Wireless PIR Ceiling Mount Sensor

Overview

- Quad Element PIR sensor
- LED Motion indicator
- Active High/Low outputs for Relay drive
- Mounting height up to 12ft (3.6m).
- 360° coverage pattern
- Bluetooth add-on enables remote sensor programming with greater customization time delay

UL Pending

Suffix "-BLE-FSR" is also in compliance with IC, AS/NZS and JAPAN for Radio Communication

Applications

The PSC-ND-I-CM-DC-BLE uses digital PIR Motion Detector Architecture and Quad Element 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.

High Vin-2.5V 100mA source
Low 100mA sink current

Sensor Operation

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

Bluetooth smart and Bluetooth mesh: The sensor comes with wireless control. The Bluetooth Low Energy (BLE) enabled sensor pairs with an Android or iOS application to allow initial setup and subsequent sensor adjustments, beyond what the analog controls on the sensor can offer. The application enables users to adjust sensor parameters such as time delay, sensitivity, and more. Additionally, features such as parameter profiles, password protection, and real-time feedback from the sensor can speed up configuration and provide custom user control. The Bluetooth Smart™ enabled sensors support mesh networking through a variety of software and wireless platforms.

Accessories

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

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

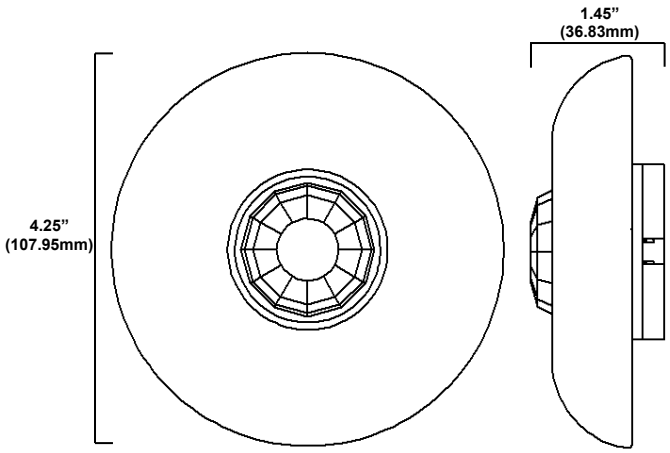
How to Order

Model No.	Description	Input Voltage	Output
PSC-ND-I-CM-DC-BLE	Passive Infrared (PIR) Occupancy Sensor ("-BLE" suffix for Bluetooth Enabled version)	12-24VDC	Control High Control Low
PSC-AC-PP-200	Dimming Power Pack for Fixture Mount	100-277VAC	12.5VDC
PSC-AC-PP-700C	Power Pack for Fixture Mount	100-277VAC	12.5VDC
PSC-AC-PP-400	Power Pack for Fixture Mount no Relay	100-277VAC	12.5VDC
Add Suffix for options:			
-BLE	For PacWave Standalone Bluetooth Enabled Version		
-BLE-SR / -BLE-FSR	For Bluetooth Mesh in TruBlu™ Enabled Version / For Bluetooth Mesh in Future-Silvair Enabled Version		
-BLE-CB	For Bluetooth Mesh in Casambi Enabled Version		

Summary	
Sensor Type	PIR occupancy sensor
Input Voltage | Current Consumption	12-24VDC | 25mA sensor (50mA w/ BLE)
High	Vin-2.5V 100mA source
Low	100mA sink current
Digital High	3.3VDC
Mounting Height	Ceiling mount up to 12ft (3.6m)
Max Range*	37ft (11.3m) radius
Max Bluetooth Range**	49 ~ 65ft (15 ~ 20m)
Time Delay	Varies
Photocell Sensitivity	NA
Operating Temperature	-30° C to 70°C
Storage Temperature	-40° C to 80°C
Relative Humidity	90-95% non-condensing at 30°C
Color	White
Warranty	5 years

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

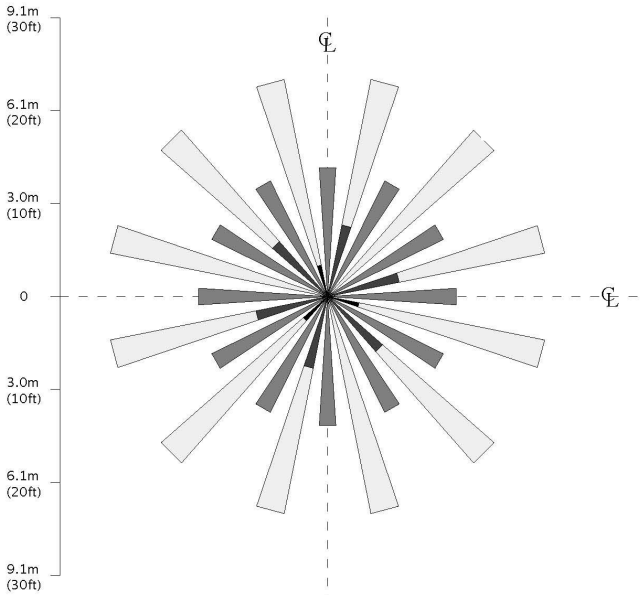
Physical Dimensions



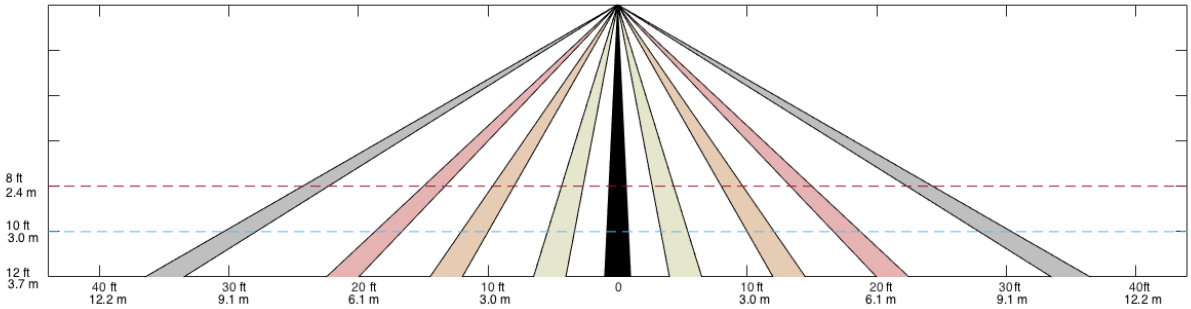
Drawings are Not to Scale

Detection Area

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



LBL - Side View



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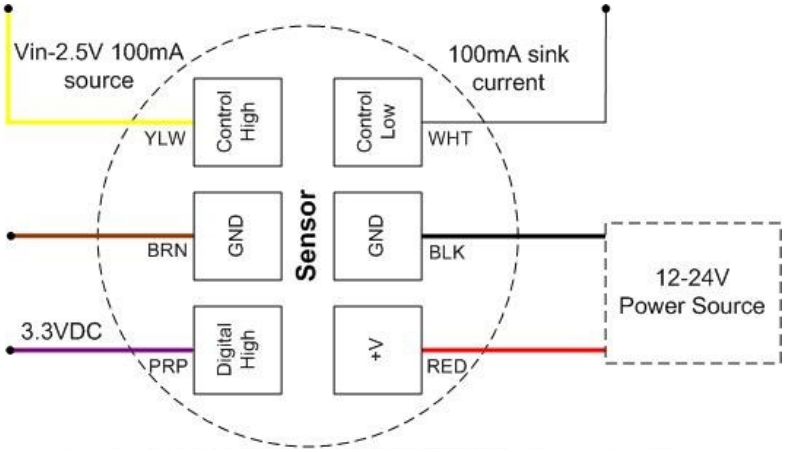
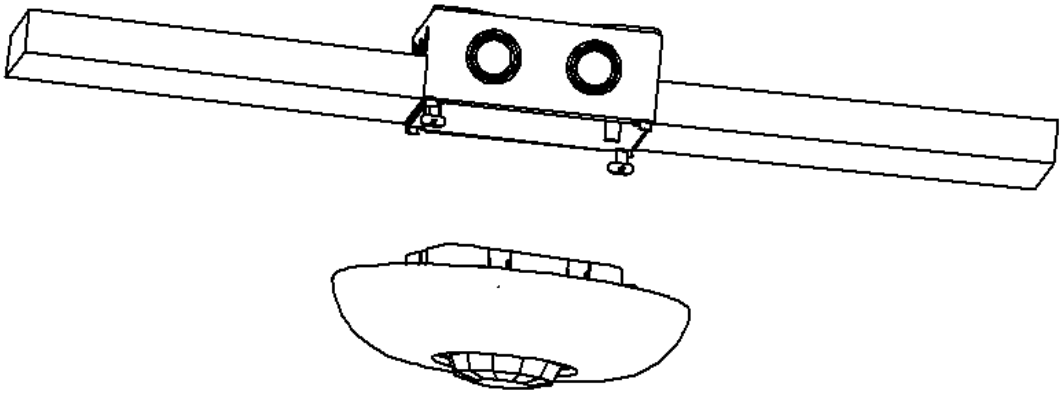
Wiring Diagram



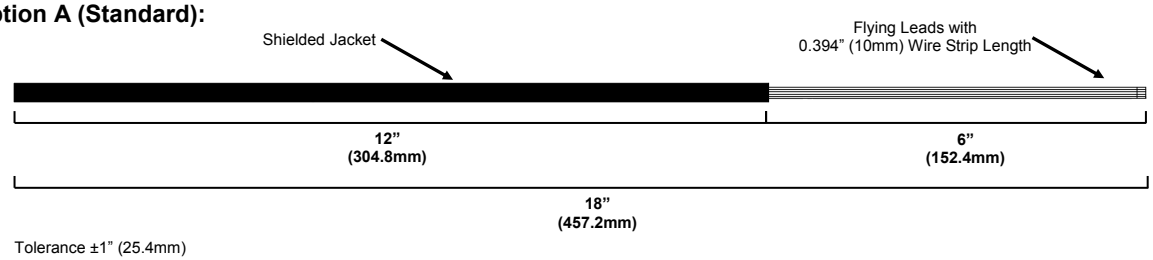
Note: If using a power pack other than PSC-AC-PP-200, connect either Control Hi or Control Low, depending on power pack relay circuitry.

Installation



Lead info:

Option A (Standard):



Tolerance ±1" (25.4mm)