

PSC-BL-I-FM-DC0-BLE-CB | Wireless Dimming PIR Sensor

Overview

- Interior/Exterior PIR sensor
- Mount in Fixture, JBOX, Ceiling, or Ceiling Tile
- Casambi Wireless Mesh
- High-End Trim, Zoning, Continuous Dimming
- IP65 Rating
- LED Motion indicator
- Active High output for relay drive
- Mounting height up to 40 ft (12.2m)
- ioXt Alliance cybersecurity certification



Suitable for indoor or outdoor

Applications

The PSC-BL-I-FM-DC0-BLE-CB (/S side mount or /B bottom mount) uses PIR Motion Detector Architecture and passive infrared (PIR) technology for improved detection coverage for ceiling or fixture mount, high bay, and low bay applications.

The PSC-BL-I-FM-DC0-BLE-CB /S/B 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 and outdoor applications. It supports fixture and ceiling mounts up to 40 ft (12.2 m) 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.

The sensor is capable of daylight detection ideal for Energy Code compliance turning lighting on or off for exterior and parking entrance applications. Daylight capability application is not intended for daylight harvesting.

Side and Bottom Mount IP65 enclosure available for fully outdoor rated option.

Sensor Operation

Casambi Wireless Mesh Controls: The sensor connects to a wireless mesh network via a mobile app, available as iOS or Android, to allow initial setup and subsequent parameters adjustments.

User Interface: Using the mobile app, features include: setup, control real time feedback, and scheduling without a gateway or Internet access.

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

Relay Control: An additional High Control output can be used to trigger relays or other control circuitry.

See Casambi User Manual for more information.

Accessories

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

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

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

Summary

Sensor Type: PIR occupancy/vacancy sensor

Input Voltage | Current Consumption:
12-24 VDC | 50 mA

0-10V Output: 150 mA

High: Vin-2.5 V 150 mA source

Mounting Height: - High Bay:
Fixture or ceiling mount up to 40ft (12.2m)
Mounting Height: - Low Bay:
Fixture or ceiling mount up to 30ft (9.1m)

Max Sensor Range: High Bay:
(12.2m) radius
Max Sensor Range Low Bay:
30ft (12.2m) radius

Max Wireless Range¹
100ft (30.4m)

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

How to Order

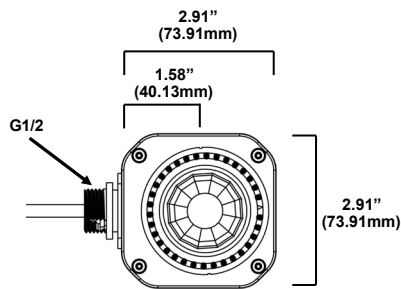
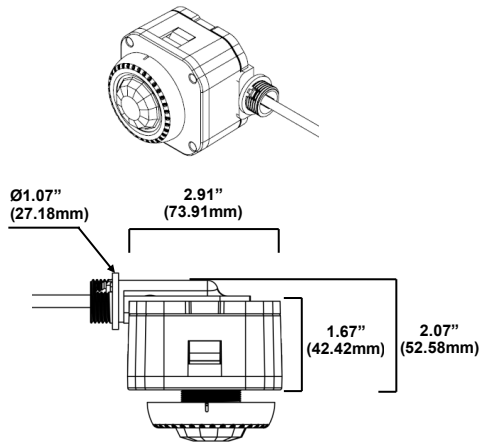
Model No.	Description	Input Voltage	Output
PSC-BL-I-FM-DC0-BLE-CB	Passive Infrared (PIR) Occupancy Sensor, with Casambi Wireless Mesh	12-2VDC	0-10VDC Control High
Add Suffix for options:	Add Suffix for options:		
/B	with Bottom-mount enclosure for IP65 PIR Occupancy Sensor		
/S	with Side-mount enclosure for IP65 PIR Occupancy Sensor		
PIR-BL01-F3-LBL	360° Low Bay Lens, maximum coverage 60ft diameter at 30ft height, White Color		
PIR-BL01-F3-LBL-BN	360° Low Bay Lens, maximum coverage 60ft diameter at 30ft height, Brown Color		
PIR-BL01-F3-LBL-BK	360° Low Bay Lens, maximum coverage 60ft diameter at 30ft height, Black Color		
PIR-BL01-F5-HBL	360° High Bay Lens, maximum coverage 70ft diameter at 40ft height or 80ft diameter at 32ft height, White Color		
PIR-BL01-F5-HBL-BN	360° High Bay Lens, maximum coverage 70ft diameter at 40ft height or 80ft diameter at 32ft height, Brown Color		
PIR-BL01-F5-HBL-BK	360° High Bay Lens, maximum coverage 70ft diameter at 40ft height or 80ft diameter at 32ft height, Black Color		

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

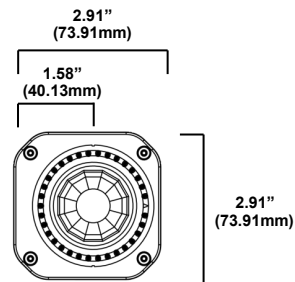
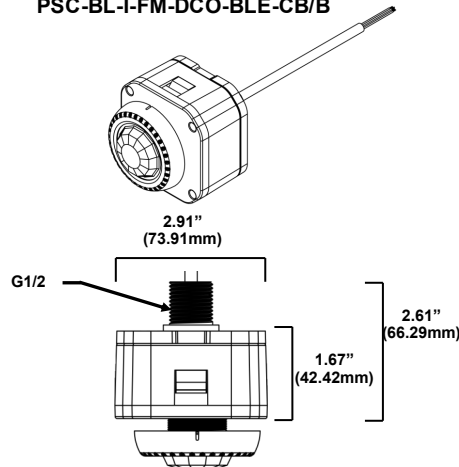


Physical Dimensions

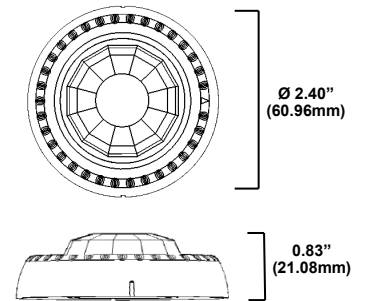
Side Mount Housing
PSC-BL-I-FM-DC0-BLE-CB/S



Bottom Mount Housing
PSC-BL-I-FM-DC0-BLE-CB/B

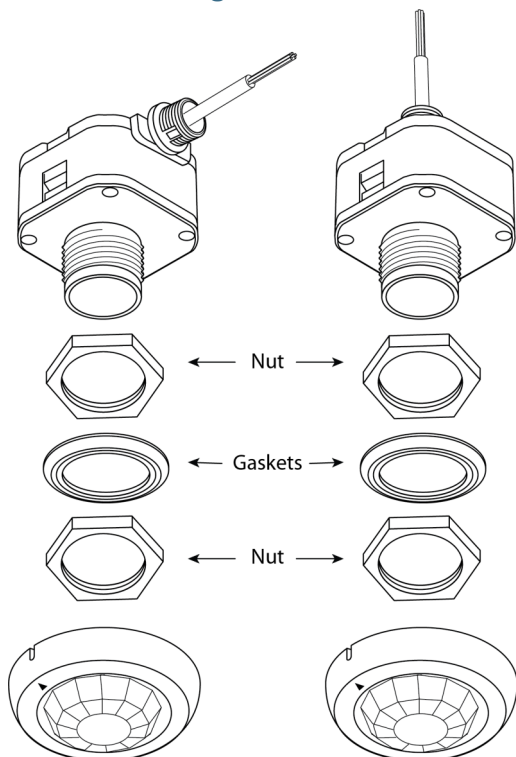


Lens Cover



Drawings are Not to Scale

Installation Ceiling, Wall or Fixture Mount



Information contained herein is subject to change without notice.
Values are nominal. All values conform to DLC tolerances.

Revised 12/2024

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Detection Area Lens Orientation



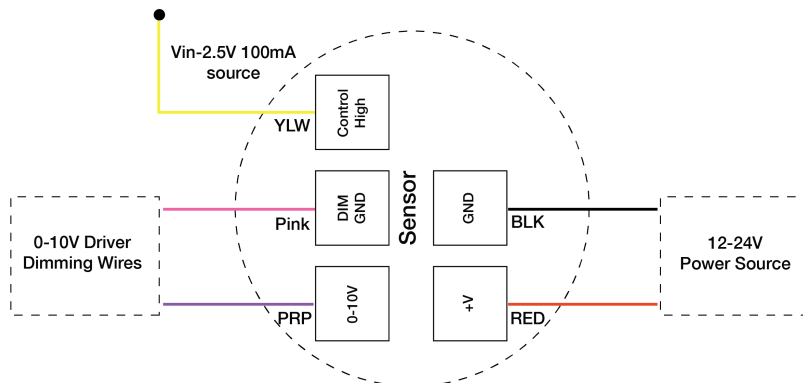
Fresnel Lens:

Lenses are available in:

High Bay Lens for mounting height at 20-40 ft (6.1-12.2 m).

Low Bay Lens for mounting height at 8-30 ft (2.4-9.1 m)

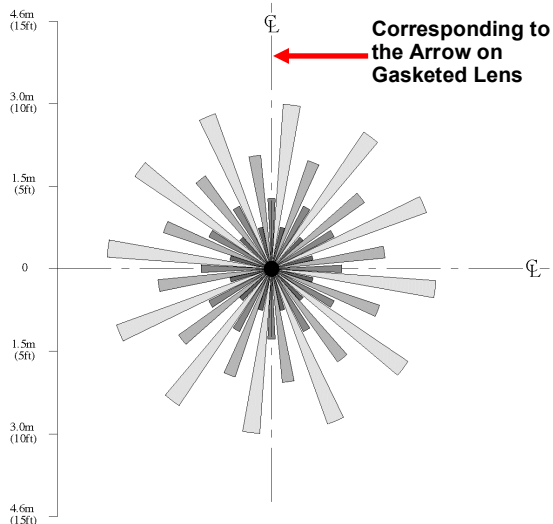
Wires



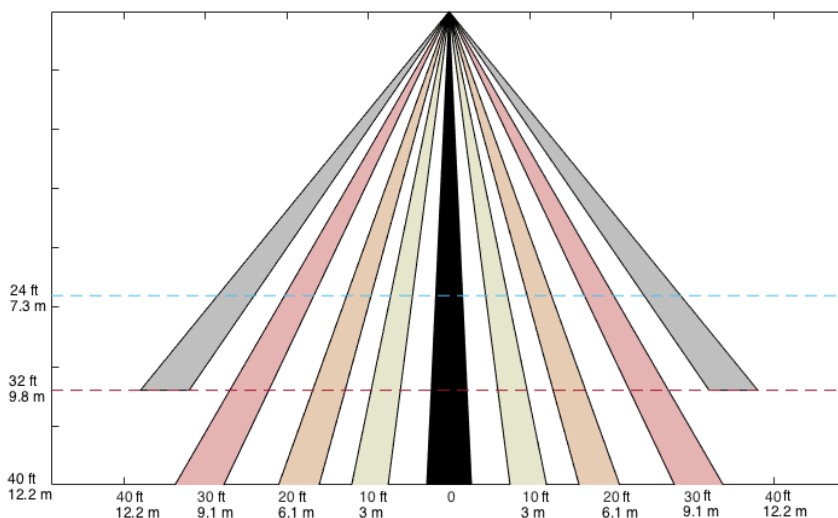
Note: If using a power pack other than PSC-AC-PP-200, connect Control High, depending on power pack relay circuitry.

Detection Area

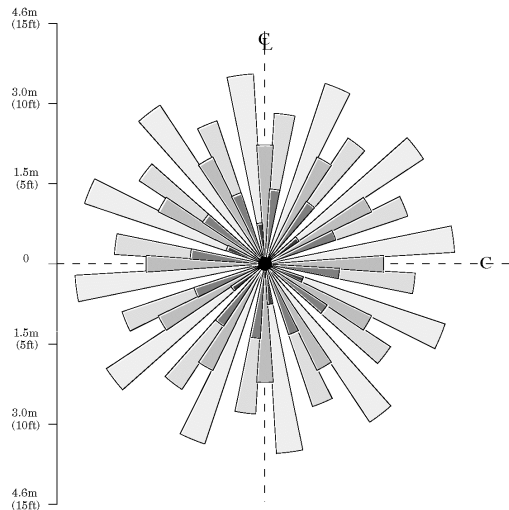
HBL: High Bay Lens-Top View at 8 ft (2.4m)



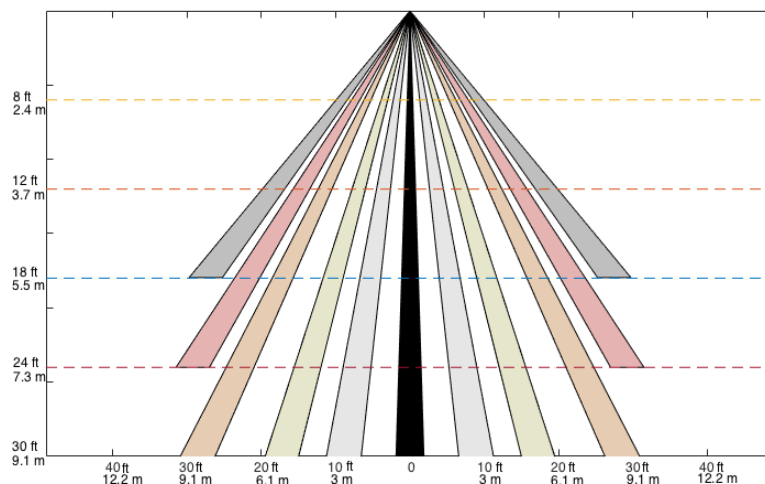
HBL - Side View



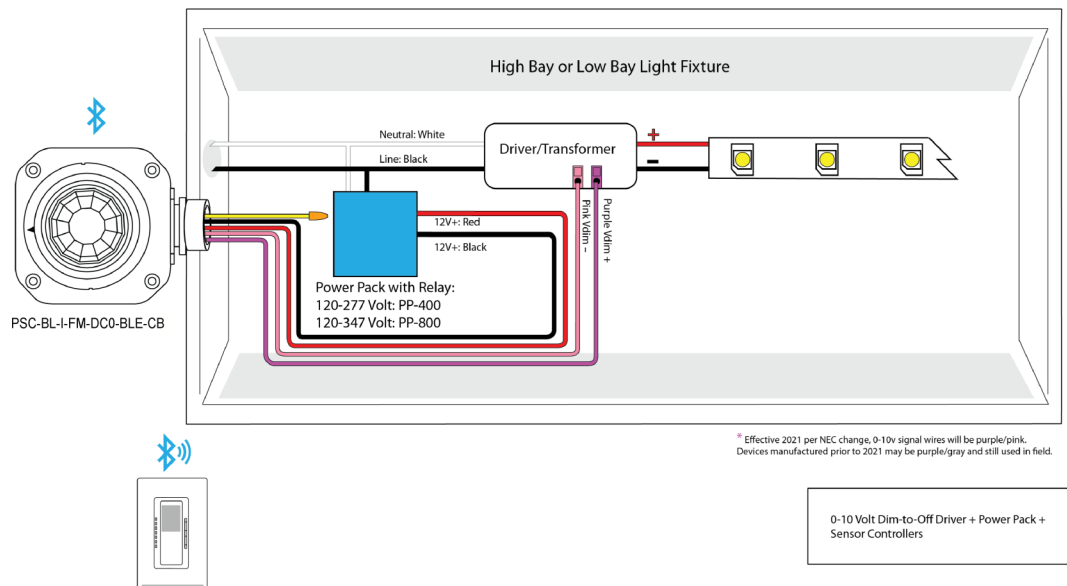
LBL: Low Bay Lens-Top View at 8 ft (2.4m)



LBL - Side View



Wiring Diagram and Fixture Mount



Dim to Off Driver with 12v Auxiliary Power

