DATA SHEET

PIR Fixture Mount Sensor 120/277VAC

Shown with optional mounting arm

Suitable for Indoor Use Only

E341446

Overview

- PIR Hi/Low Bay Sensor
- 100-277VAC Input Voltage
- Casambi Wireless Mesh
- 0-10V Output to LED Driver
- High-End Trim, Zoning, Continuous Dimming
- Relay with Zero Crossing
- Daylight Sensor for On/OFF (FM-110 version only)
- LED Motion indicator
- Mounting height up to 40ft (12.2m)
- 360° coverage pattern
- ioXt Alliance cybersecurity certification

Applications

The PSC-BL-I-FM-100-BLE-CB can accept universal input (120-277 VAC) to use the PIR Motion Detector Architecture and passive infrared (PIR) technology for improved detection coverage for high bay, and low bay applications.

The sensor is a Class 2 Device designed to satisfy CA Title 24 requirements for dimming of lighting fixtures. The occupancy sensor will shut the light off with the built in relay.

The PSC-BL-I-FM-110-BLE-SR version of this product adds daylight detection ideal for Energy Code compliance by turning lighting on or off in exterior and parking entrance applications when the daylight level reaches a threshold set in the commissioning tools. This daylight capability is not intended for continuous dimming daylight harvesting.

The sensor(s) are suitable for a variety of indoor applications including parking garages, warehouse aisles, and library stacks. It supports fixture and ceiling mounts up to 40 ft (12.2 m) high.

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: Zero Cross Switching Relay built in for load control.

Bi-Level: On/Off Daylight Detection.

See the mwConnect Casambi User Manual for more info.

Summary

Sensor Type:
PIR occupancy/vacancy sensor
Daylight Sensor for On/OFF (FM-110 version only)

Input Voltage:
100-277VAC, 2W (no-load)

Max Load:
240 VA @ 120VAC, 2A E-Ballast
554 VA @ 277VAC, 2A E-Ballast

0-10V Output: 60 mA

Mounting Height:
Fixture mount up to 40ft (12.2m)

Max Sensor Range:
40ft (12.2m) radius

Max Wireless Range[1]:
100ft (30.4m))

Operating Temperature:
-20° C to 60°C

Storage Temperature:
-40° C to 80°C

Relative Humidity:
90-95% non-condensing at 30°C

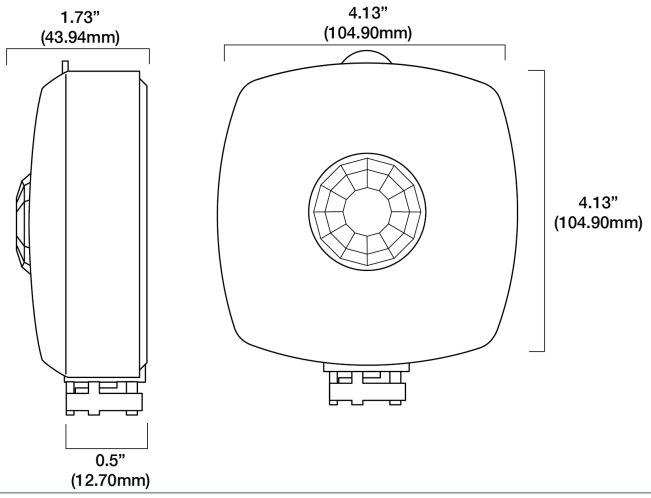
Color: White

Warranty: 5 years

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

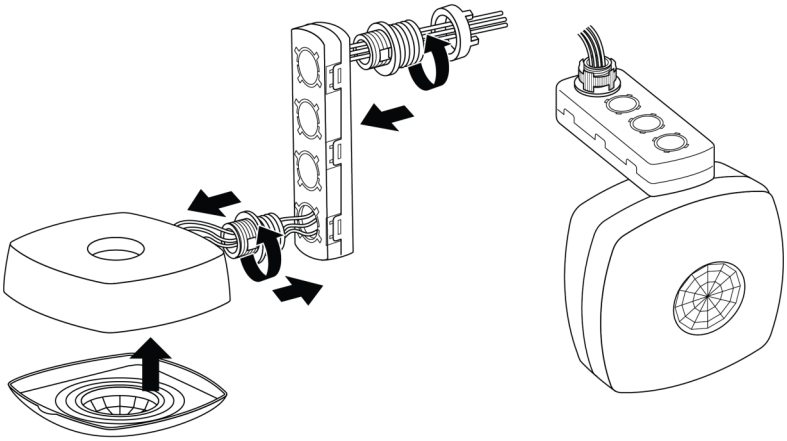
Project	
Location/Type	

Physical Dimensions



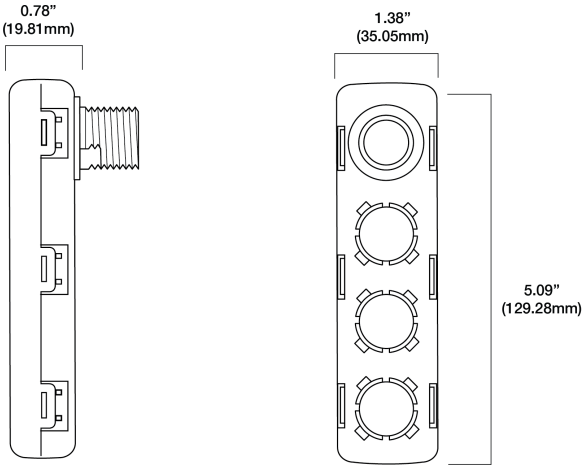
Drawings are Not to Scale

Assembly

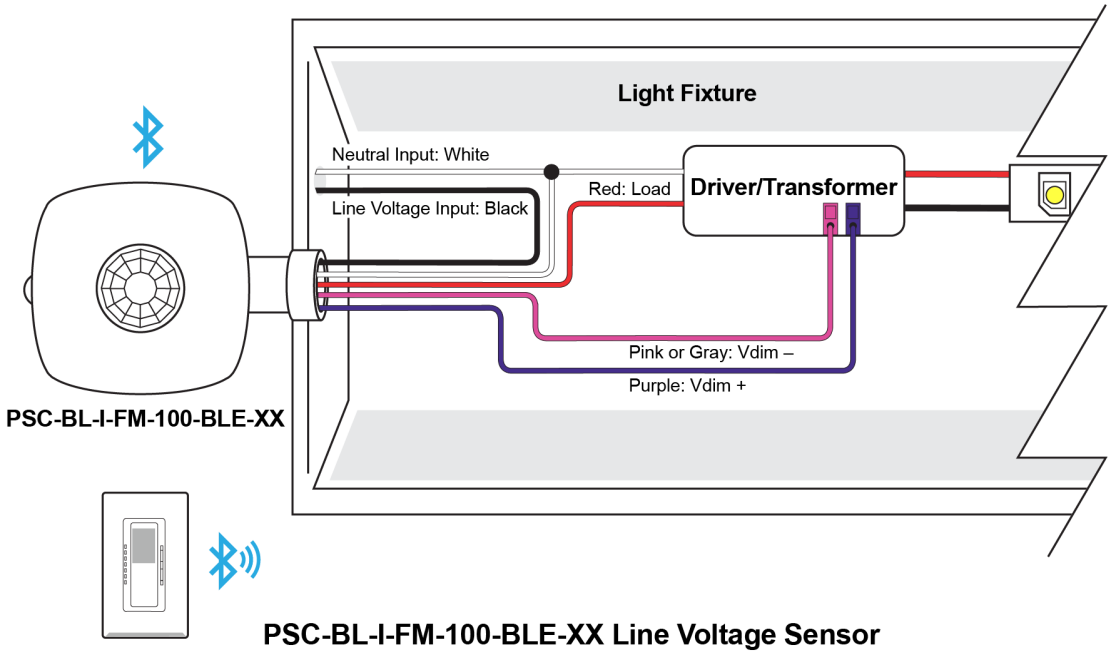


Shown with Mounting Arm (optional)

Mounting Arm (optional)



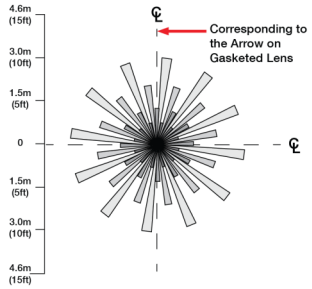
Example Application: Line Voltage Sensor in Fixture with 0-10V Driver



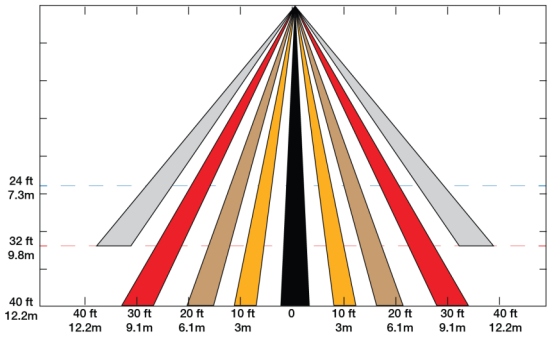
PSC-BL-I-FM-100-BLE-XX Line Voltage Sensor with 0-10V Driver

Detection Area

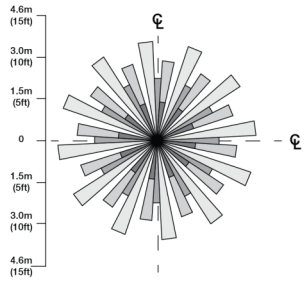
HBL: HighBay Lens - Top View at 8 ft (2.4m)

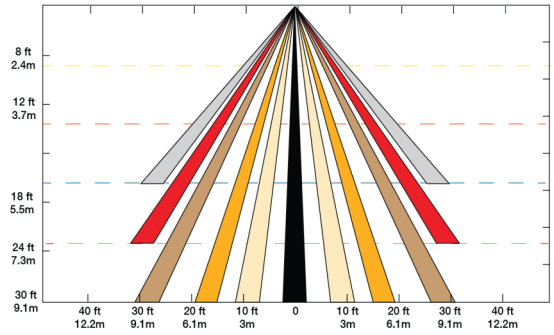


HBL: Side View



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

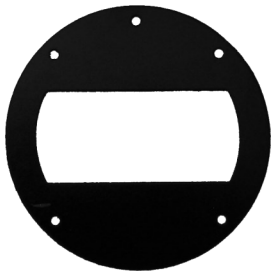




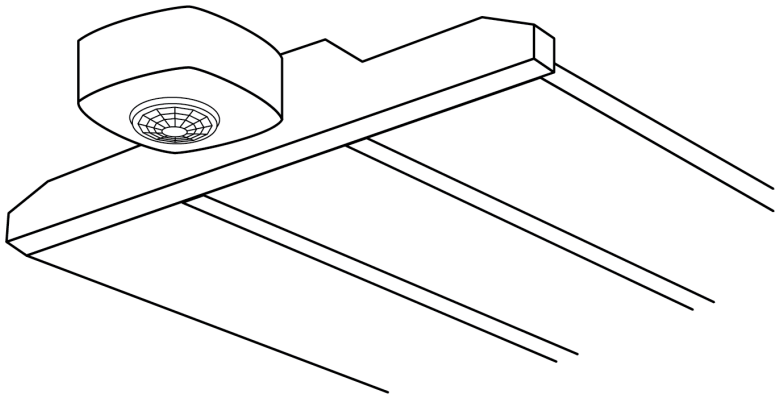
LBL: Side View

Masking

AL1: Center aisle lens cover



AL2: End of aisle lens cover



How to Order

Model No.	Description	Input Voltage	Output/Max Load
PSC-BL-I-FM-100-BLE-CB	Passive Infrared (PIR) Occupancy Sensor with relay, lens ordered separately , Casambi Wireless Mesh	100-277VAC	0-10VDC (Dimming) 240VA @ 120VAC, 2A E-Ballast 554VA @ 277VAC, 2A E-Ballast
PSC-BL-I-FM-110-BLE-CB	Same as above with Daylight Sensor for On/Off		
	Accessories		
LBL	Low Bay Lens 8-30 ft Fresnel Lens		
HBL	High Bay Lens 20-40 ft Fresnel Lens		
ARM	Mounting Arm		
AL1	Masking—Center Aisle Lens Cover		
AL2	Masking—End of Aisle Lens Cover		

Design and specifications are subject to change without notice.