

PIR Fixture Mount Sensor 120/277VAC

Overview

- PIR Hi/Low Bay Sensor
- 100-277VAC Input Voltage
- Bluetooth® SIG 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
- Conforms with DLC NLC5 Cybersecurity Standards



Shown with optional mounting arm
Suitable for Indoor Use Only



Applications

The PSC-BL-I-FM-100-BLE-SR 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 PSC-BL-I-FM-100-BLE-SR 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. The sensor is rated for use in temperatures ranging from -30° to 60°C and relative humidity from 90 to 95% at 30°C.

The optional sensor arm is ideal for end of warehouse aisles and library stacks to conform with CA Title 24 cutoff require-

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 initial design, setup and scheduling, as well as subsequent parameter adjustments.

Advanced functionality such as energy monitoring, and demand response is available with the optional TruBlu Gateway.

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 TruBlu™ Commissioning User Manual for more information.

Summary

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

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 Bluetooth Range¹:
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

Warranty: 5 years

Color: White

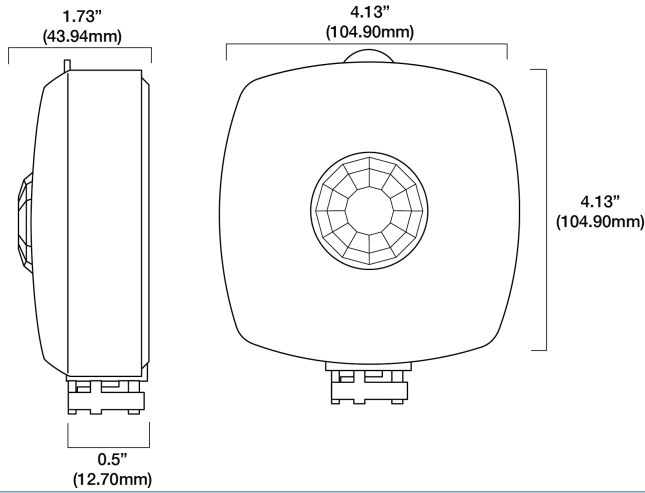
Note:

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

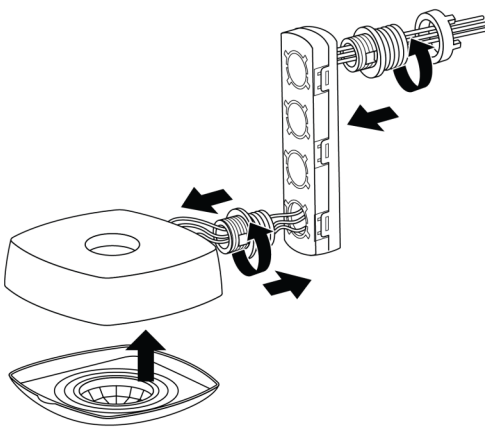
Location/Type

Physical Dimensions



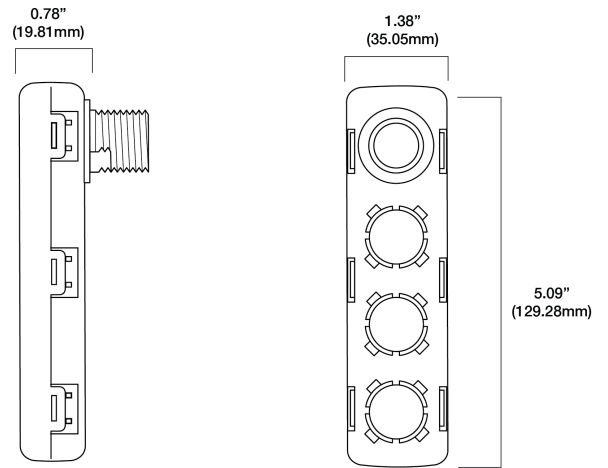
Drawings are Not to Scale

Assembly

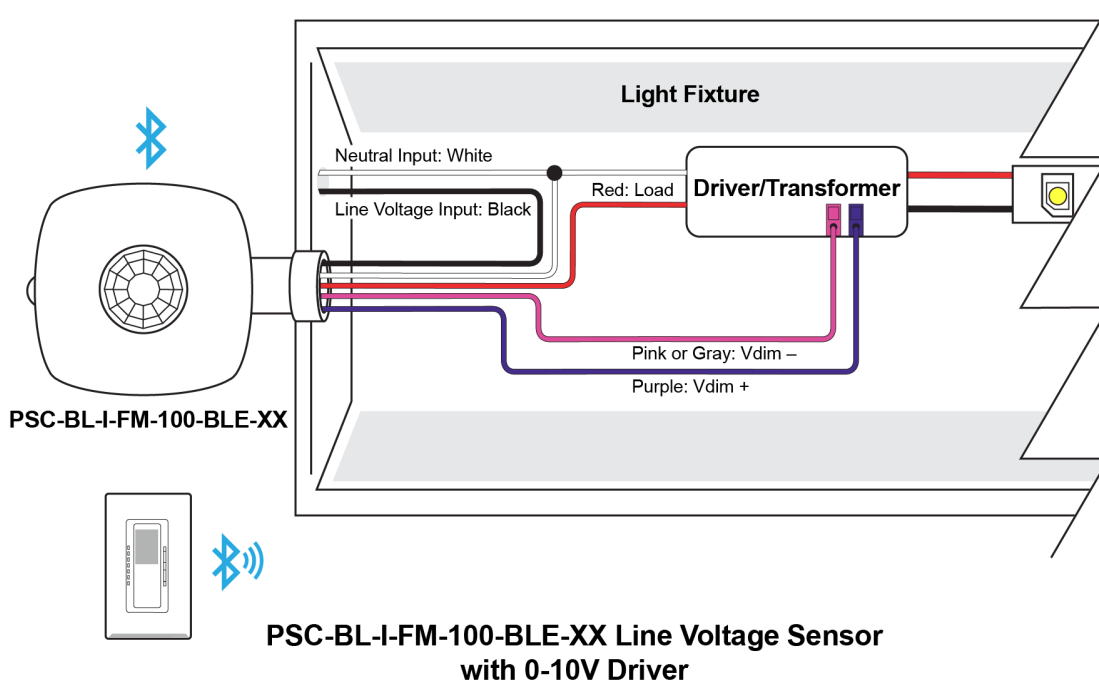


Shown with Mounting Arm (optional)

Mounting Arm (optional)

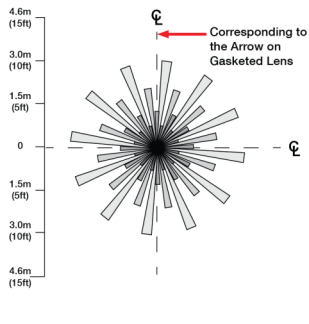


Example Application: Line Voltage Sensor in Fixture with 0-10V Driver

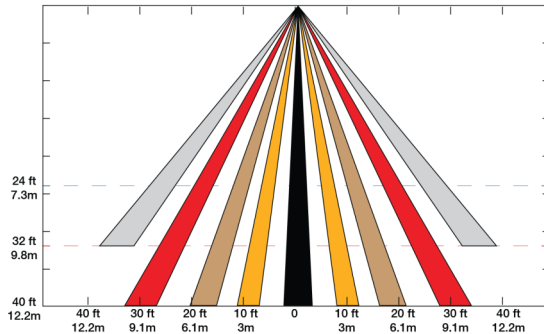


Detection Area

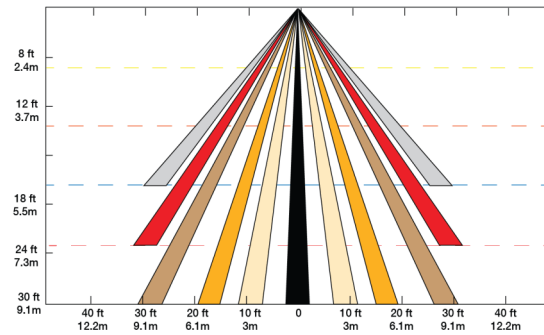
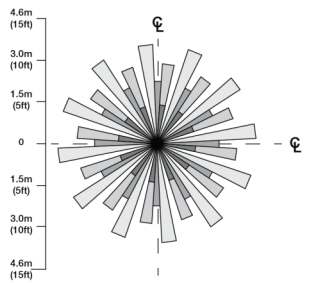
HBL: High Bay Lens - Top View at 8 ft (2.4m)



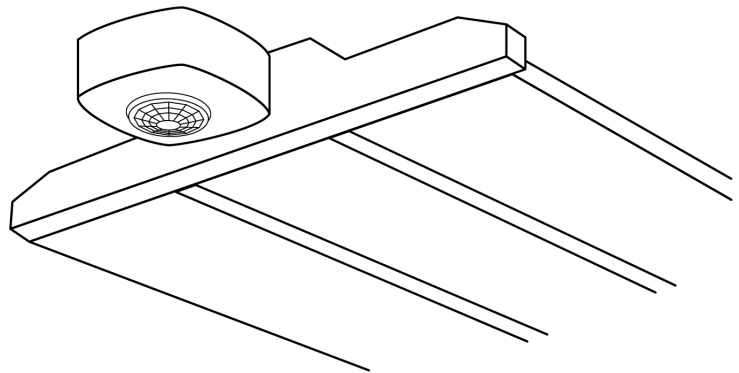
HBL: Side View



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

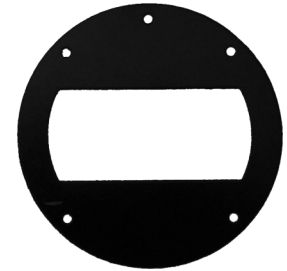


LBL: Side View



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-SR	Passive Infrared (PIR) Occupancy Sensor with relay, lens ordered separately, TruBlu Bluetooth Mesh, Silvair Technology Partner	100-277VAC	0-10VDC (Dimming) 240VA @ 120VAC, 2A E-Ballast 554VA @ 277VAC, 2A E-Ballast
PSC-BL-I-FM-110-BLE-SR	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.