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PSC-BL-I-FM-110-BLE-WS

AC Powered PIR Fixture Mount Sensor

c UL us LISTED
E341446

Product Overview

PSC-BL-I-FM-110-BLE-WS is a Bluetooth® Mesh enabled PIR occupancy and daylight sensor designed for fixture-mounted lighting control in warehouses, parking garages, industrial facilities, and other low-bay as well as high-bay applications. The sensor operates from a universal 100–277VAC input and provides occupancy-based switching, daylight sensing, and 0–10V dimming control for LED drivers. It supports fixture and ceiling mounting up to 40 ft (12.2 m).

PSC-BL-I-FM-110-BLE-WS is a part of Lumos Controls ecosystem supported by controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards. The ecosystem is listed by the **Design Lights Consortium (DLC)**, qualifying it for energy conservation incentive programs and rebates by utility companies

Specifications

Electrical

Specifications	Value
Input Voltage	100–277VAC
Power Consumption	2W (No Load)
Max Load	240VA @ 120VAC, 2A Electronic Ballast 554VA @ 277VAC, 2A Electronic Ballast
0–10 V Output	60 mA

Output Channel

Specifications	Value	Remarks
Number of channels	1	
Voltage range	0-10VDC	
Current	100mA	Upto 50 LED sink drivers
Dimming range	0-100%	1000 steps resolution
Dimming curve	linear (default) / logarithmic	

Features

- PIR Occupancy Detection
- Integrated Daylight Sensor
- Universal 100–277VAC Input
- 0–10V Continuous Dimming
- Fixture & Ceiling Mount Installation
- Supports Mounting Heights up to 40 ft (12.2 m)

Bluetooth

Specifications	Value	Remarks
Frequency range	2402-2480MHz	
Max output power	8dBm	Conductive
Receive sensitivity	-95dBm	
Connection distance (device to device)	45m(147.6ft)	Vary depending on the installation environment

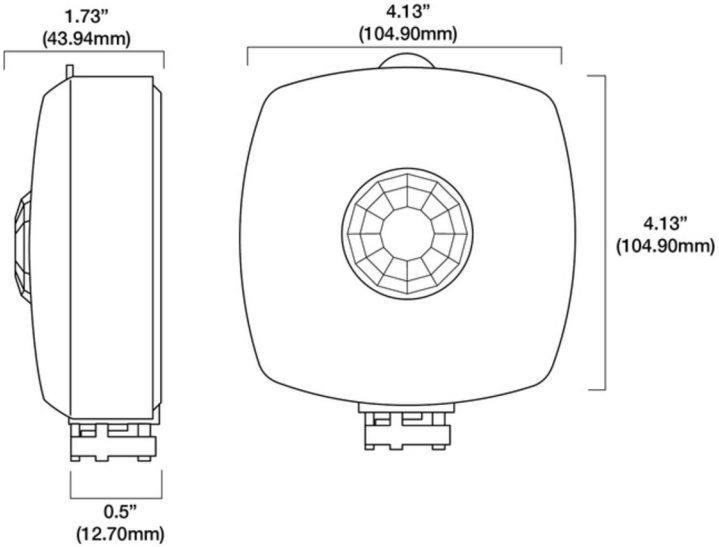
Environmental

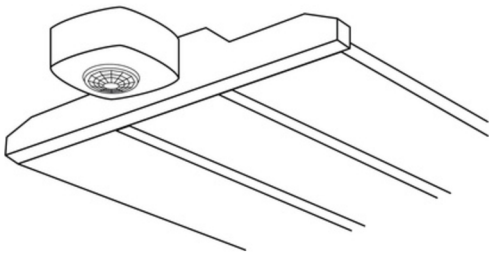
Specifications	Value	Remarks
Operating temperature	-20 to 60°C (-4 to 140°F)	
Storage temperature	-40 to 80°C (-40 to 176°F)	
Relative humidity	90-95%	non-condensing at 30°C

Mechanical

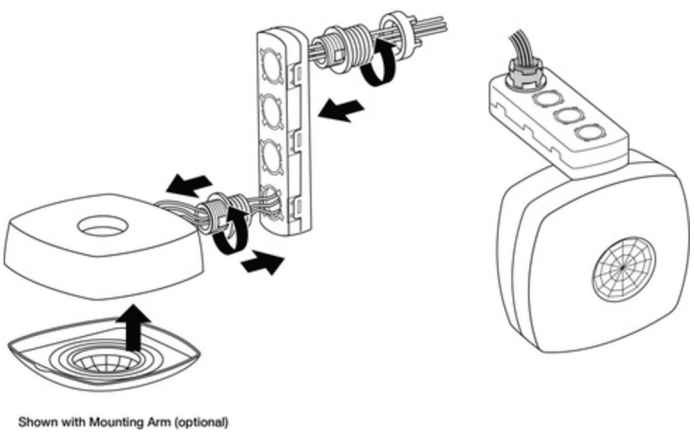
Specifications	Value	Remarks
Dimensions	4.13"(104.90mm) x 4.13"(104.90mm 43.9 mm (1.73 in)	length x width with lens

Product Dimensions

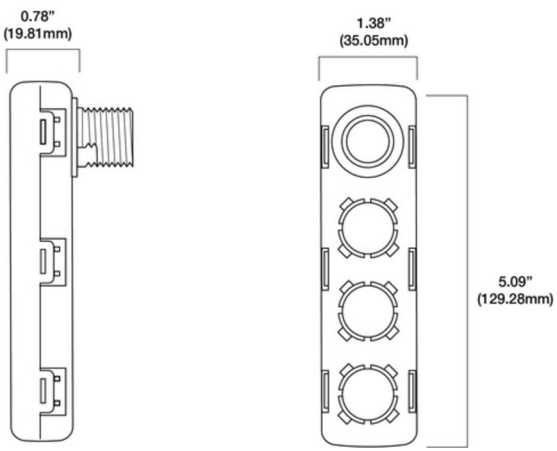




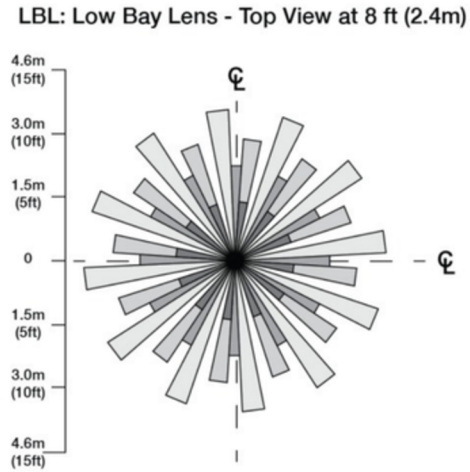
Assembly

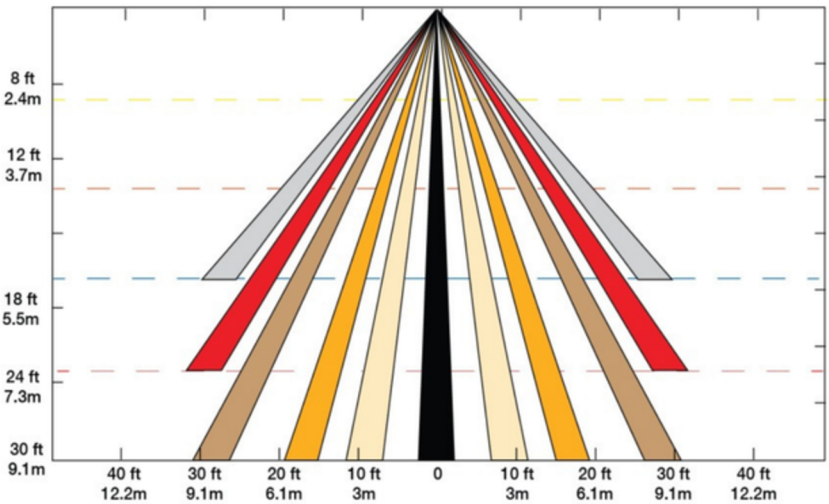


Mounting Arm (optional)



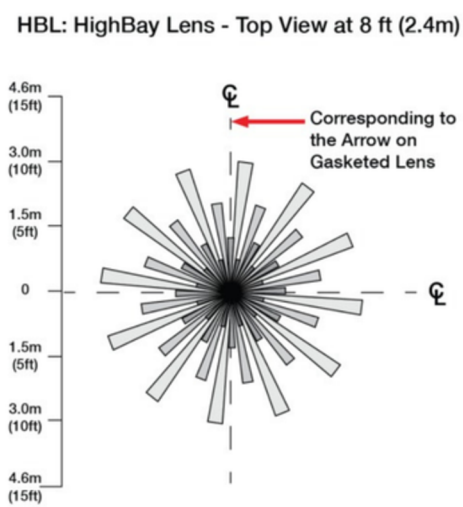
Motion sensor coverage pattern

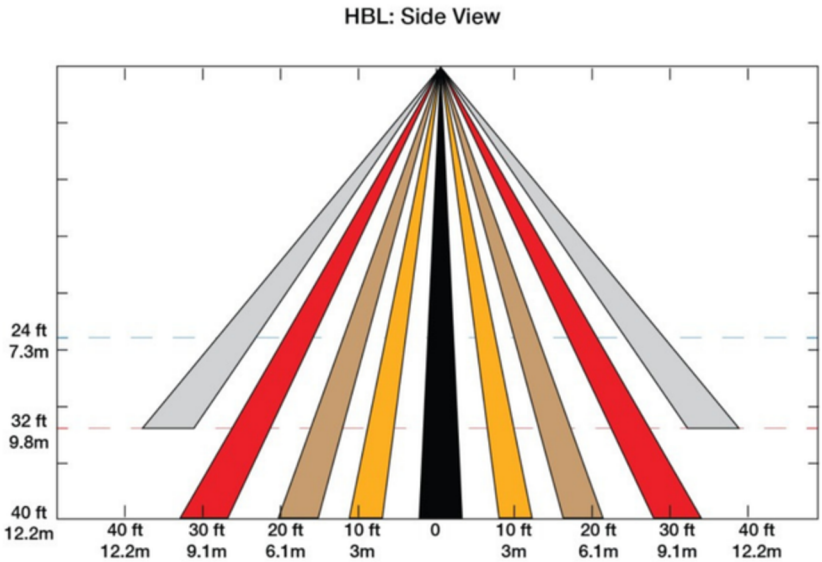




Specifications	Value	Remarks
Max mounting height	30 ft (9.1 m)	
Max detection range	60 ft (18.2 m)	Diameter, @30 ft (9.1 m) mounting height
Max coverage area	2826 sq.ft (260.1 sq.m)	Area, @30 ft (9.1 m) mounting height

Motion sensor coverage pattern





Specifications	Value	Remarks
Max mounting height	40 ft (12.2 m)	
Max detection range	80 ft (24.4 m)	Diameter, @40 ft (12.2 m) mounting height
Max coverage area	5024 sq.ft (467.4 sq.m)	Area, @40 ft (12.2 m) mounting height

Masking (optional)

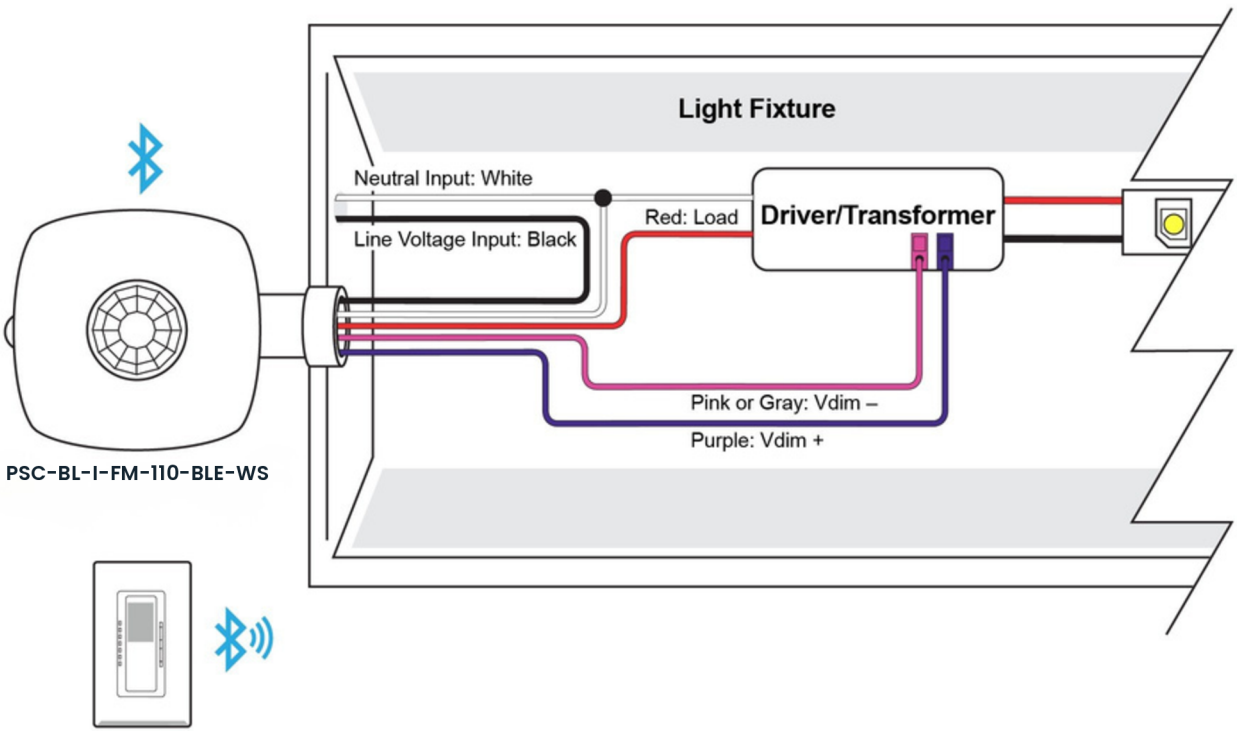
AL1: Center aisle lens cover



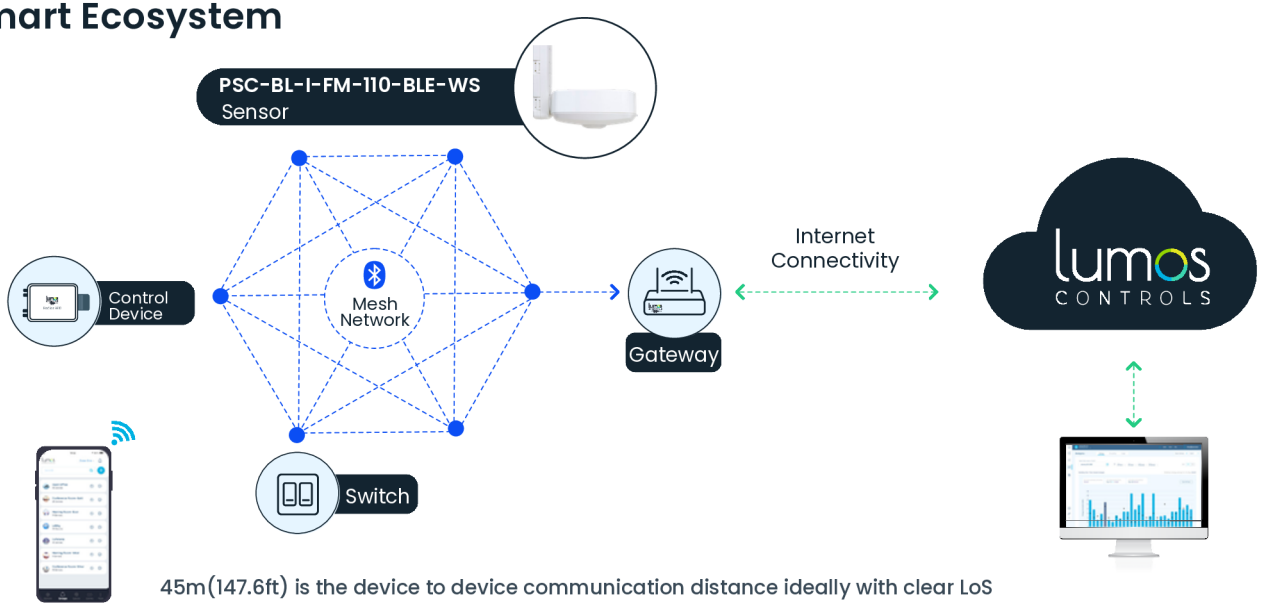
AL2: End of aisle lens cover



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



Smart Ecosystem



45m(147.6ft) is the device to device communication distance ideally with clear LoS

Ordering Information

Product Code	Product Description
PSC-BL-I-FM-110-BLE-WS-LBL	AC Powered Fixture Mount Sensor with Low-Bay Lens
PSC-BL-I-FM-110-BLE-WS-HBL	AC Powered Fixture Mount Sensor with High-Bay Lens

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