## APPLICATIONS

The BMS-M-PIR-IN-1-BLE-SR can accept universal input (120-277 VAC), uses the PIR Motion Detector Architecture and passive infrared (PIR) technology for improved detection coverage for high bay, and low bay applications.

The BMS-M-PIR-IN-1-BLE-SR is a Class 2 Device designed to satisfy CA Title 24 requirements for bi-level dimming of lighting fixtures. The sensor will shut the light off with the high current relay built in.

The sensor is suitable for a variety of indoor applications. 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.

## OVERVIEW

• PIR sensor
• Input voltage: 120-277VAC, 50/60Hz
• Bluetooth® SIG mesh
• Photocell control, High-End Trim, Zoning, Continuous Bi-level Dimming

• Energy Monitoring and Scheduling with BlueMesh® Gateway
• LED Motion indicator
• Mounting height up to 40ft(12.2m)
• 360° coverage pattern
• Daylight Harvesting

## PHYSICAL DIMENSIONS

1.73"
(43.94mm)

4.13"
(104.90mm)

4.13"
(104.90mm)

0.5"
(12.70mm)
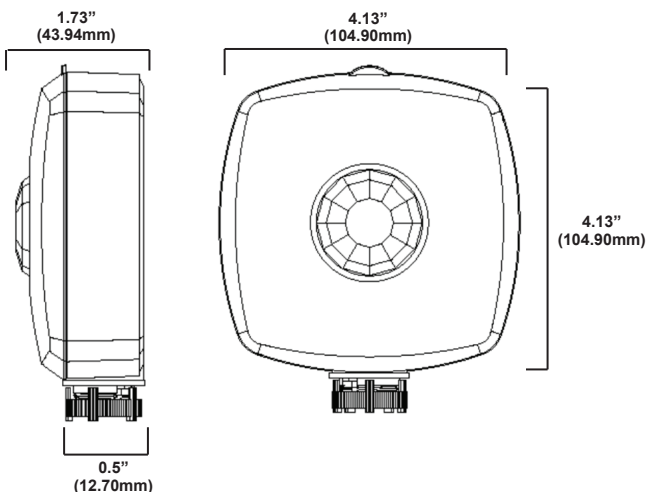
## SUMMARY

**Sensor Type:**
**PIR occupancy sensor**

**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**

**Height:**
**Mounting Height:**
**Fixture or ceiling mount up to 40ft (12.2m)**
**Max Range[1]:**
**40ft (12.2m) radius**
**Max Bluetooth Range[2]:**
**49 ~ 65ft (15 ~ 20m)**

**Operating Temperature:**
**30°C to 60°C (86°F-140°F)**

**Storage Temperature:**
**40°C to 80°C(104°F-176°F)**

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

**Color:**
**White**

Note:

1. The application/absolute range of the sensor is subject to variation because of different types of clothing, backgrounds, and ambient temperature. It is recommended to conduct testing for range accuracy.
2. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

## SENSOR OPERATION

**BlueMesh® Controls:**
Qualified by Bluetooth SIG for its Bluetooth Mesh 1.0.1 (SIG), the sensor can pair with an iOS application to allow initial setup and subsequent sensor adjustments. The mobile application enables adjustment of sensor parameters such as time delay, dim level, daylight detection, and more. Additionally, features such as parameter profiles, manual dim control, and real-time feedback from the sensor can speed up configuration and provide custom user control.

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

**Relay Control:**
High current relay built in for load control
See BlueMesh® Commissioning User Manual for more info

## ORDERING INFORMATION

### Example: BMS-S-PIR-IN-DC1-BLE-SR-SMO (plus a lens)

| Model No. | Description | Input Voltage | Output |
|---|---|---|---|
| BMS-M-PIR-IN-1-BLE-SR | Passive Infrared (PIR) Occupancy Sensor w/Load Switch, Bluetooth Mesh in BlueMesh® | 100-277VAC | 0-10VDC (Dimming) 240VA @ 120VAC, 2A E-Ballast 554VA @ 277VAC, 2A E-Ballast |
| **Add Suffix for options:** | **Add Suffix for options:** | | |
| LS01-LB-30FT | Low Bay Lens 8-30 ft Fresnel Lens, LBL | | |
| LS01-HB-40FT | High Bay Lens 20-40 ft Fresnel Lens | | |

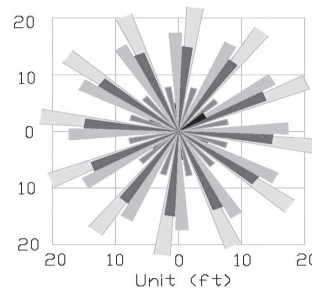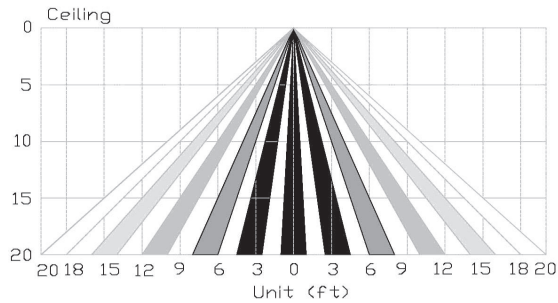**For Line to Low Voltage Power Supply/Controller, please check BlueMesh power pack.**
Design and specifications are subject to change without notice.
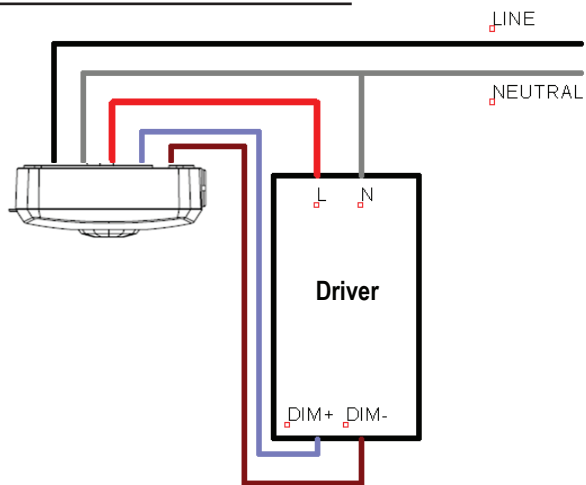
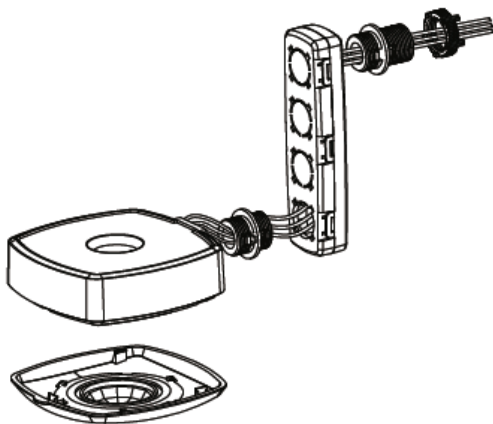## DETECTION AREA

**HBL: High Bay Lens**
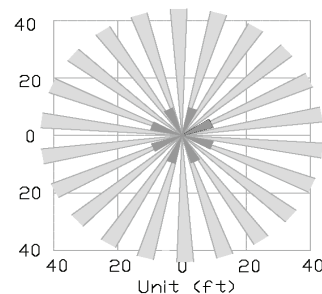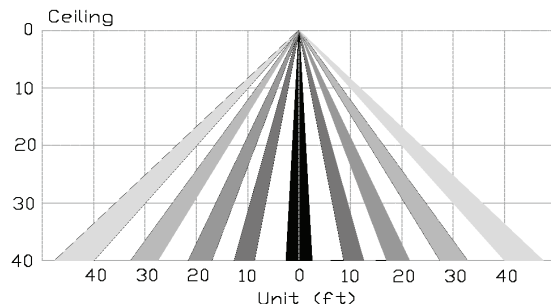
**LBL: Low Bay Lens**



Design and specifications are subject to change without notice.

## WIRING DIAGRAM



LINE

NEUTRAL

**Driver**

L    N

DIM+  DIM-

## Assembly



## WARRANTY

Five year limited warranty.

Specifications subject to change without notice.