



## PRODUCT DESCRIPTION

The BMS-S301-PIR-ULT-8-BLE-SR-CM is a ceiling-mounted dual-technology occupancy sensor combining PIR and ultrasonic detection. It leverages Bluetooth® Low Energy (BLE) mesh networking for seamless wireless control of luminaires, excelling in environments where single-sensor systems fail. Its flexible installation and robust industrial design ensure reliable coverage in challenging spaces.

## ORDERING INFORMATION

### Description

Bluetooth Mesh Ceiling Mounted PIR & Ultrasonic Sensor

### Part Number

BMS-S301-PIR-ULT-8-BLE-SR-CM

## TECHNICAL DATA

|                             |   |
|-----------------------------|---|
| <b>Input Voltage</b>        | 120/230/277/347VAC, 50/60Hz                             |
| <b>Detection Method</b>     | PIR + Ultrasonic dual technology                        |
| <b>Ultrasonic frequency</b> | 40kHz   |
| <b>Max Load</b>             |   |
| Ballast/LED/Tungsten        | 800W@120VAC, 1200W@230VAC<br>1200W@277VAC, 1500W@347VAC |
| <b>Detection Range</b>      |   |
| PIR/Ultrasonic              | 1900ft² (180m²) / 1600ft² (150m²)                       |
| <b>Detection Angle</b>      | 360°  |
| <b>Wireless Protocol</b>    | Bluetooth® BLE Mesh                                     |
| <b>Max Bluetooth Range</b>  | 150ft (40m), line of sight                              |
| <b>Wireless Range</b>       | 66 to 82ft (20 to 25m), typical                         |
| <b>Operating Temp.</b>      | 32°F to 131°F (0°C to 55°C)                             |
| <b>Warranty</b>             | 5 years   |

## FEATURES

- Dual PIR and ultrasonic sensing for accurate occupancy detection.
- Bluetooth® Low Energy (BLE) mesh networking for wireless group control.
- App/web configurable.

### Smart Networking

It enables wireless group control of luminaires via BLE mesh, and centralized management via mobile app or web portal. Ideal for large-scale lighting systems.

### Dual-Technology Sensing

Combines PIR and ultrasonic motion detection to improve occupancy accuracy and reduce false triggers. Ensures reliable performance in open areas or complex indoor layouts.

### Extended Wireless Range

Supports Bluetooth® communication up to 150 ft(40m) line-of-sight, allowing for flexible deployment in large open-plan spaces. Range may vary based on environmental conditions.

### Flexible Installation

Compatible with 4-inch square or octagonal junction boxes, offering ceiling-mount versatility across spaces.

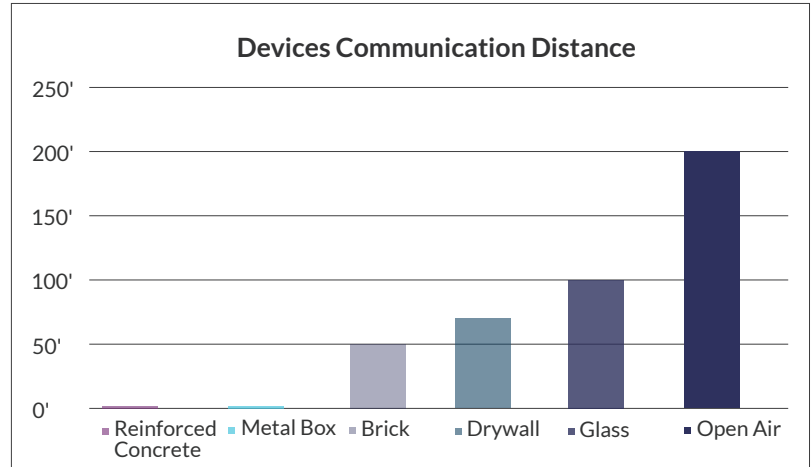
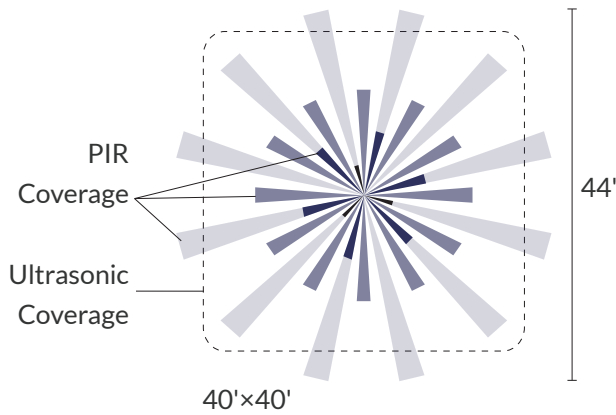
Mounting options:

1. 4 square junction box with double gangmudring.
2. 4 inch octagonal junction box.

### Construction

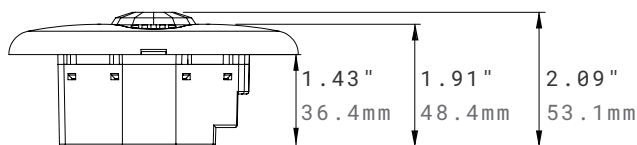
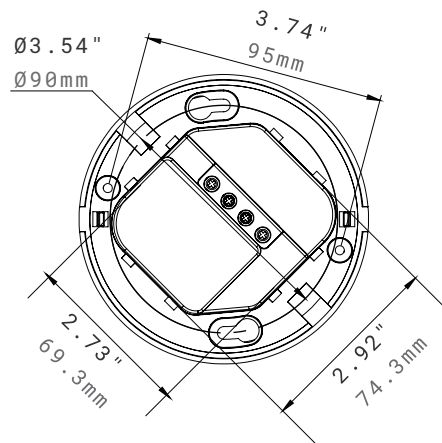
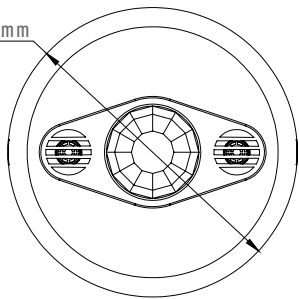
Material: white polycarbonate.

### DETECTION AREA

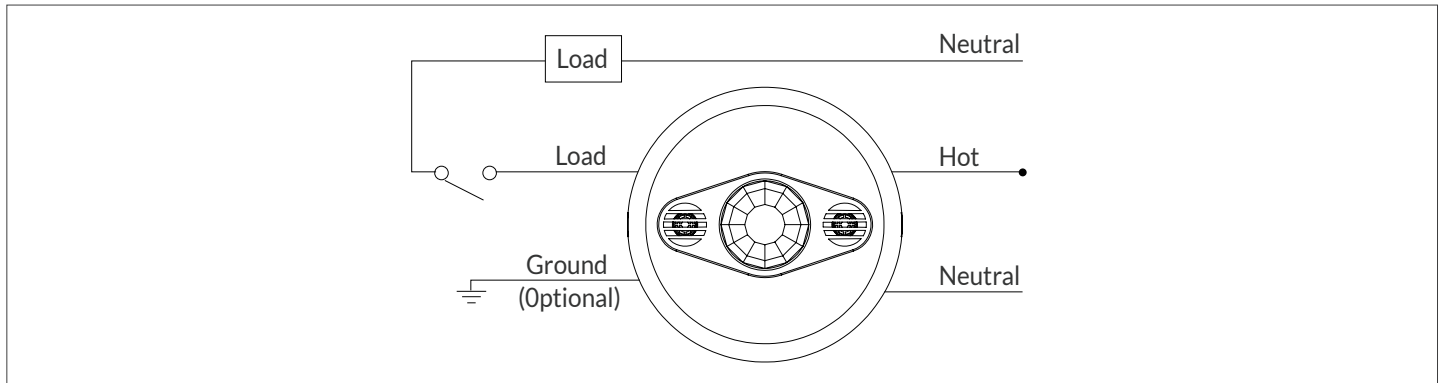


### PHYSICAL DIMENSIONS

Ø4.51"  
Ø114.5mm

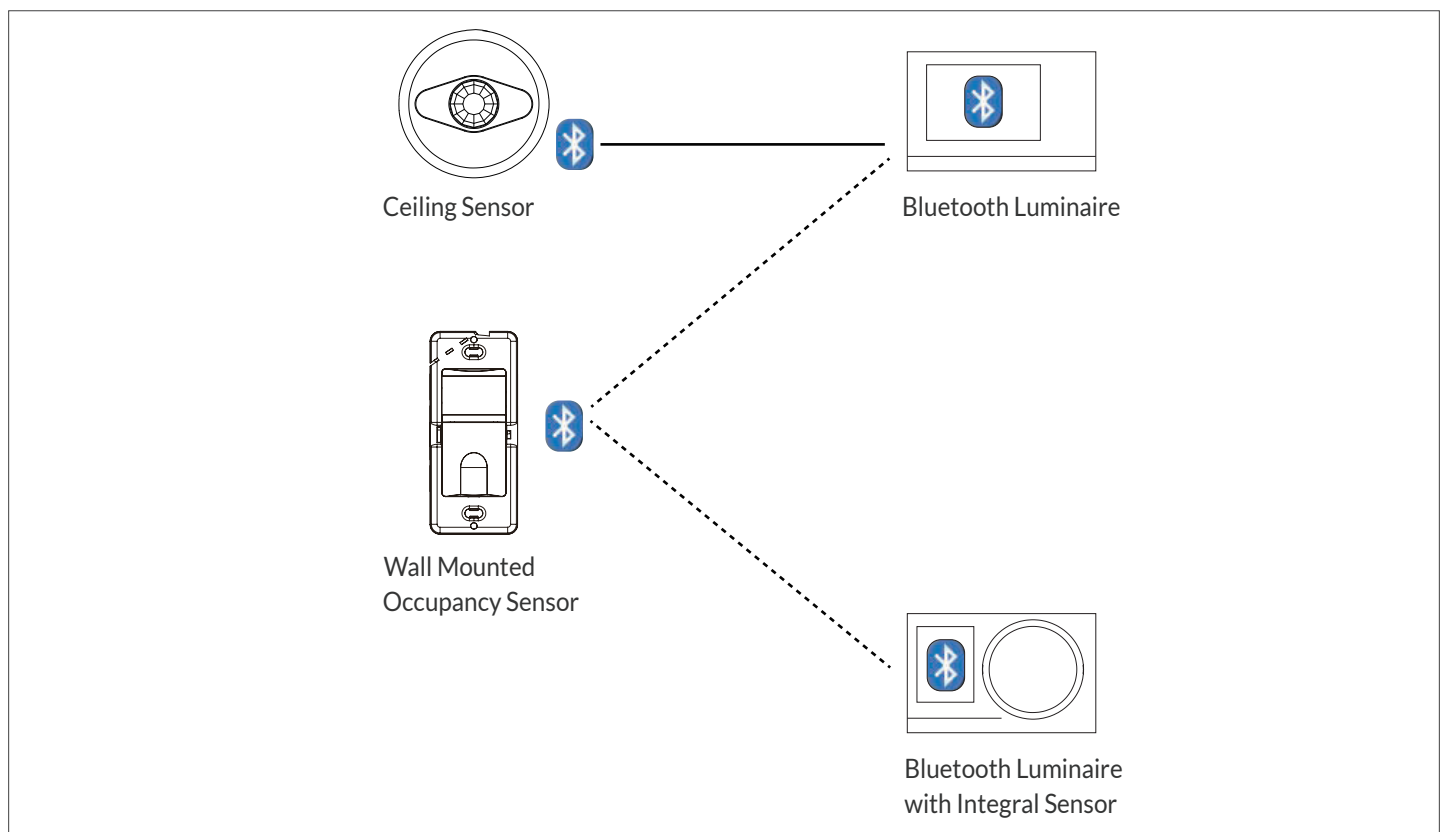


### WIRING DIAGRAM



Ref#: 20250730

### EXAMPLES



### WARRANTY

5 years limited warranty.