



## PRODUCT DESCRIPTION

The BMS-S7D-MSW-DC2-BLE-SR Microwave Bluetooth Sensor delivers high-performance motion detection for industrial lighting systems. By integrating microwave sensing with Bluetooth® mesh networking, it provides broad coverage and flexible wireless control capabilities.

## ORDERING INFORMATION

### Description

Bi-level Microwave (MSW) Occupancy Sensor with Bluetooth® Mesh feature

### Part Number

BMS-S7D-MSW-DC2-BLE-SR

## TECHNICAL DATA

Type	Microwave occupancy sensor
Power Input	10–14VDC, >50mA
Control Output	0-10V, max. 25mA sinking current
Transmission power	<0.2mW
HF System	5.8GHz+75MHz
Mounting Height	15ft max.
Detection Angle	360°
Wireless Protocol	Bluetooth® SIG mesh
Bluetooth Range	100ft(30m), max.
Operating Temperature	-40°F to 158°F (-40°C to 70°C)
Antenna	Onboard
Connector	Low Voltage connector
IP Rating	20

## FEATURES

- Magnetic mounting design - Tool-free installation eliminates screws for fast deployment.
- Daylight harvesting.
- High-end trim, zoning, continuous bi-level dimming.
- Magnetic reset and LED Motion indicator available.
- On-board antenna.

### Bluetooth Mesh Networking

The sensor relays signals via a self-healing mesh network, extending control range up to 100ft(30m) and enabling centralized management of compatible devices.

Range may vary based on environmental conditions.

### Advanced Microwave Sensing

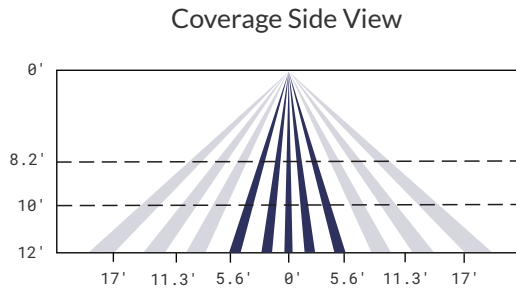
The 5.8GHz microwave sensor detects motion with high accuracy, ideal for both high bay and low bay applications and challenging environments.

### User-Friendly Design

Features an LED motion indicator, magnetic reset, and low voltage connector for easy installation and maintenance.

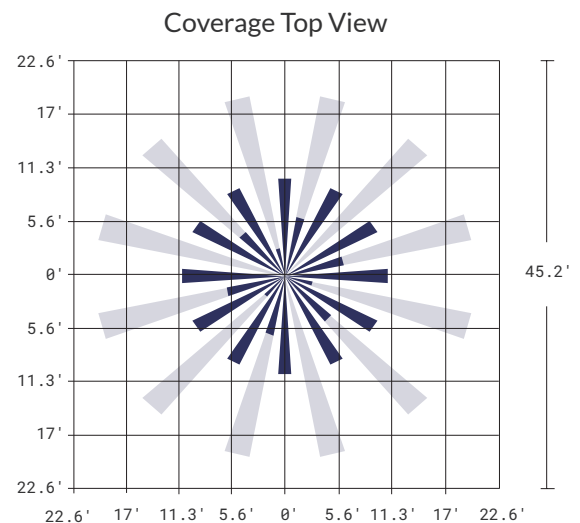
To reset: touch the top of the sensor for 5 seconds.

## DETECTION AREA

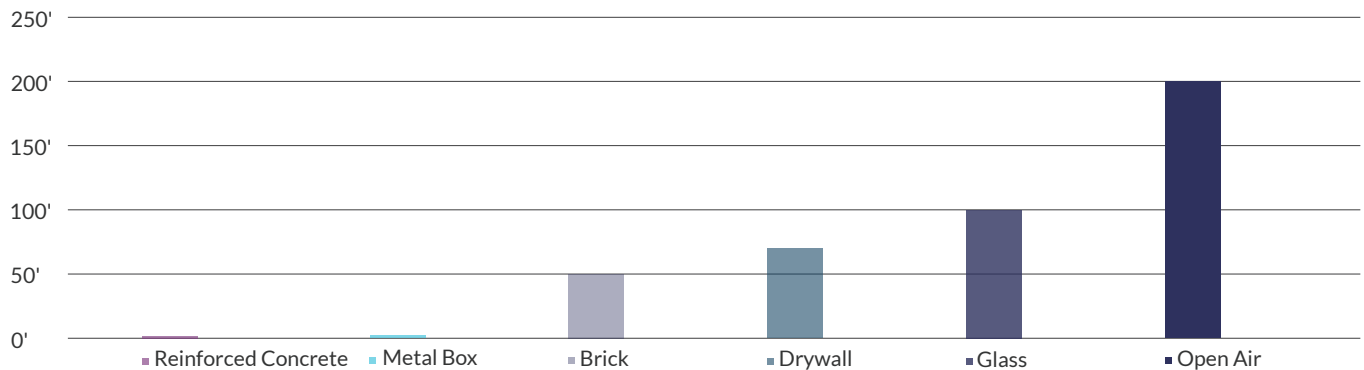


The detection area for movement can be roughly divided into two parts.

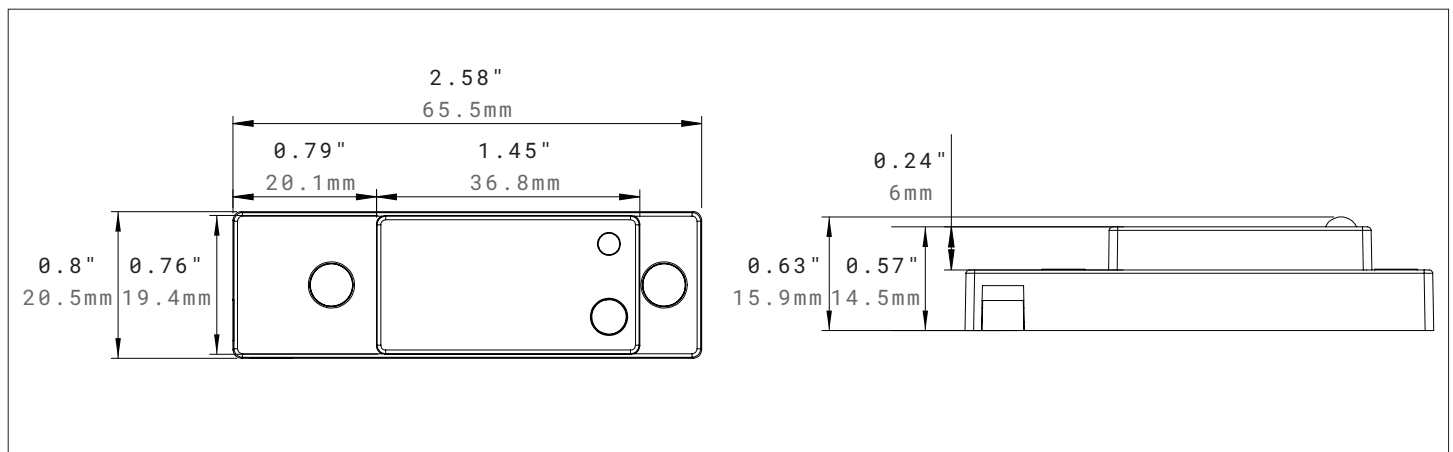
- Slow movement (person moving < 1.0/s or 0.3m/s)
- Quick movement (person moving > 1.3/s or 0.4m/s)



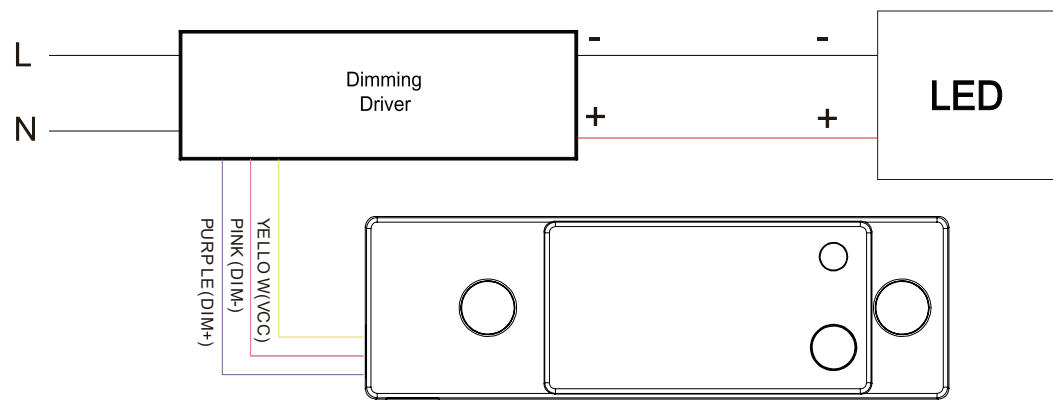
## Devices Communication Distance



## DIMENSIONS



WIRING DIAGRAM



Ref#: 20250801

WARRANTY

5 years limited warranty.