blueMesh

PRODUCT DESCRIPTION

The BMS-S4E-3-PIR-DC2-BLE-SR integrates PIR motion detection with Bluetooth® Low Energy (BLE) mesh networking, providing reliable occupancy sensing and group lighting control for high-bay environments. Its self-healing wireless network ensures robust connectivity, ideal for large-scale industrial lighting automation.

ORDERING INFORMATION

Description
0-10V Dimming Snap in PIR Occupancy Sensor with Quick Connector
Part Number
BMS-S4E-3-PIR-DC2-BLE-SR

TECHNICAL DATA

Sensor Type	Passive infrared sensor
Input Voltage	10-14VDC, >50mA
Control Output	0-10V, max 25mA sinking current
Mounting Height	12ft(4m) max
Detection Angle	360°
Operating Temperature	-4°F to140°F(-20°C to 60°C)
Max Bluetooth Range	100ft(30m)
Wireless Protocol	Bluetooth® SIG mesh
Converter	Bluetooth to 0-10V signal
Certification	UL listed
	FCC certified
IP Rating	20

FEATURES

▪ Daylight harvesting

▪ Bluetooth SIG mesh.

▪ High-end trim, zoning, continuous bi-level dimming.

▪ LED motion indicator.

▪ Low-voltage connector.

Smart Networking
The Bluetooth mesh network extends control range by relaying signals between devices, enabling broader coverage. All 0-10V compatible devices can be centrally managed via a mobile application.

Wireless Range
The wireless range reaches up to 100ft(30m) in open outdoor conditions. Actual performance varies based on installation factors.
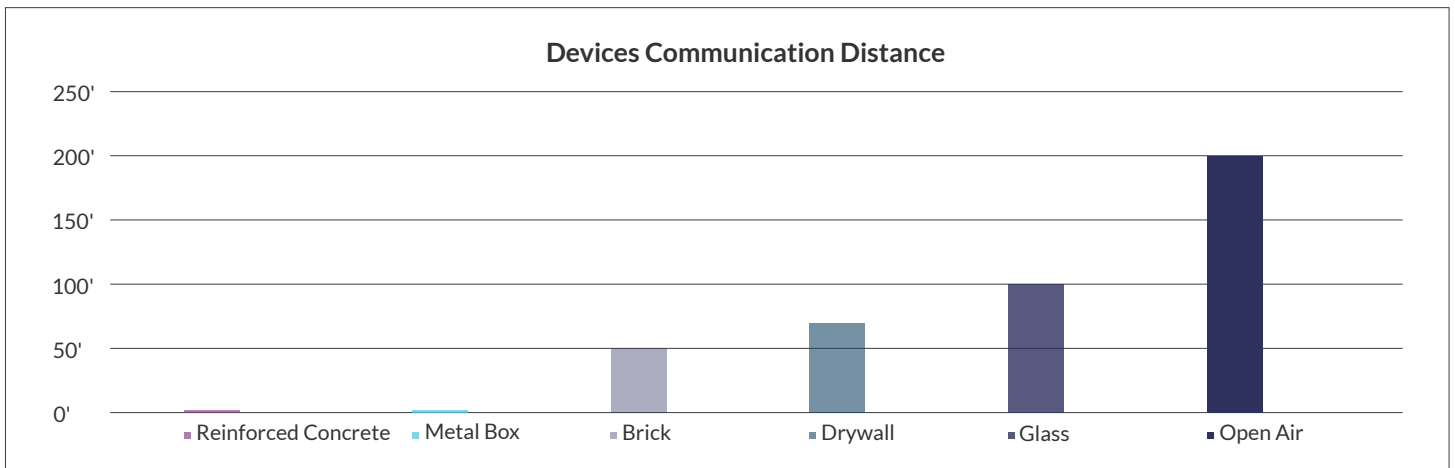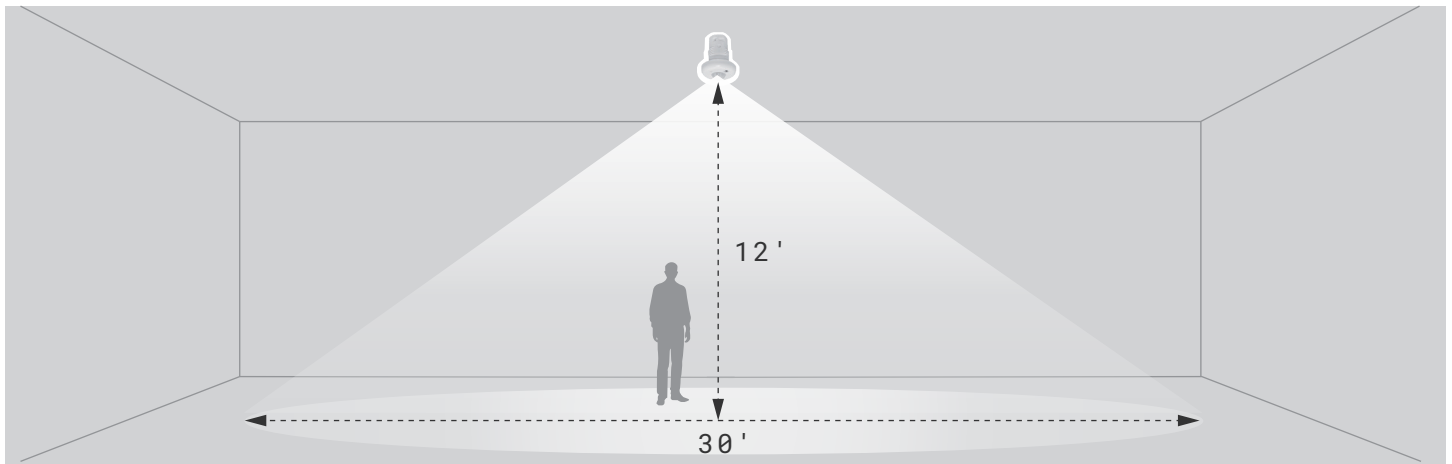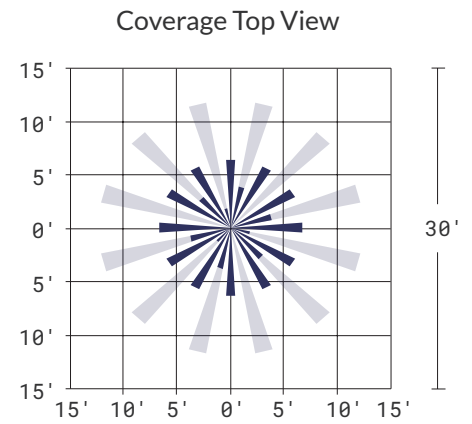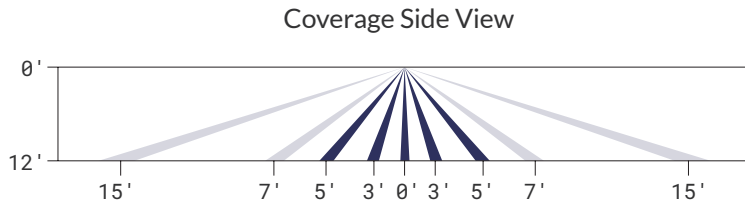
Troubleshooting
The system supports both local and remote reset methods.
Local reset: press the button of the sensor for 5 seconds.
Remote: press "RESET"+" ON/OFF" buttons in sequence.

Compact Design
On-board antennas simplify lighting control installations with compact, reliable, and cost-effective wireless connectivity.
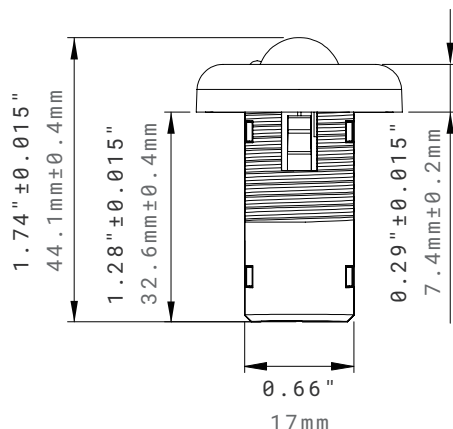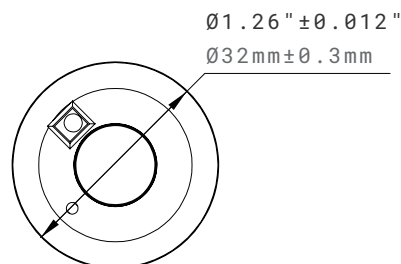
DETECTION COVERAGE PATTERN

Minor Motion
Major Motion

Coverage Side View
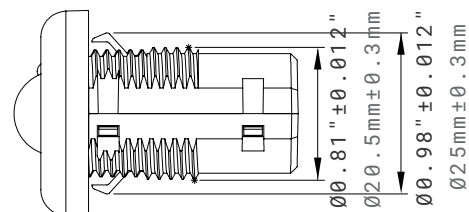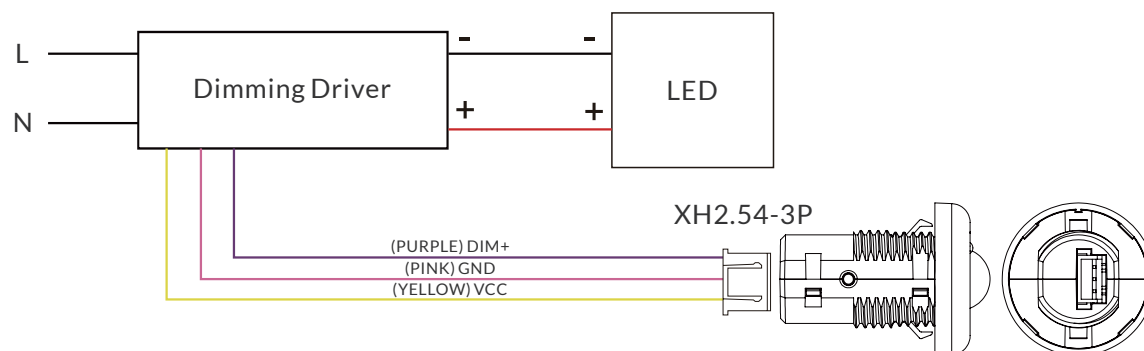
Coverage Top View

Devices Communication Distance

Reinforced Concrete   Metal Box   Brick   Drywall   Glass   Open Air

Ref#: 20250731

DIMENSIONS

Side View

1.74"±0.015"
44.1mm±0.4mm

1.28"±0.015"
32.6mm±0.4mm

0.29"±0.015"
7.4mm±0.2mm

0.66"
17mm

Top View

Ø1.26"±0.012"
Ø32mm±0.3mm

Side View

Ø0.81"±0.012"
Ø20.5mm±0.3mm

Ø0.98"±0.012"
Ø25mm±0.3mm

WIRING

L

N

Dimming Driver

− −

+ +

LED

XH2.54-3P

(PURPLE) DIM+
(PINK) GND
(YELLOW) VCC

WARRANTY

5 years limited warranty.