blueMesh

TECHNICAL DATA

Product Type	PIR Occupancy/Vacancy Sensor Dimmer
Input Voltage	120-277VAC, 50/60Hz
Power Consumption	Max. 1.5W
Protocol	Bluetooth® mesh
Mounting	Standard wall box
Max Detection Range	
Mounting height @ 4ft	40ft (12.2m)
Max Bluetooth Range	30ft (9.14m)
Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-10°C to 60°C (14°F to 140°F)
Relative Humidity	90-95% non-condensing at 86°F
Certification	UL listed, DLC listed, FCC certified

PRODUCT DESCRIPTION

The BMWS-M-1BT-PIR-1-BLE-SR-WH PIR Occupancy Sensor Dimming Wall Controller integrates Bluetooth® NLC-certified wireless control with PIR occupancy sensing for automated lighting management. Designed for classrooms, offices, and restrooms, it supports both automatic and manual dimming. Bluetooth® mesh networking ensures seamless luminaire integration, while the BlueMesh app enables effortless configuration and advanced features like energy monitoring.

FEATURES

▪ Bluetooth® NLC-certified. Compliant with DLC NLC5 cybersecurity standards.

▪ LED status indicator available.

▪ Compatible with standard wall box.

Bluetooth® NLC Certified
Ensures secure wireless communication for reliable lighting control.
Bluetooth range varies significantly with fixture placement and environmental factors. Always validate coverage through on-site testing during lighting mock-up phase to ensure seamless control integration.
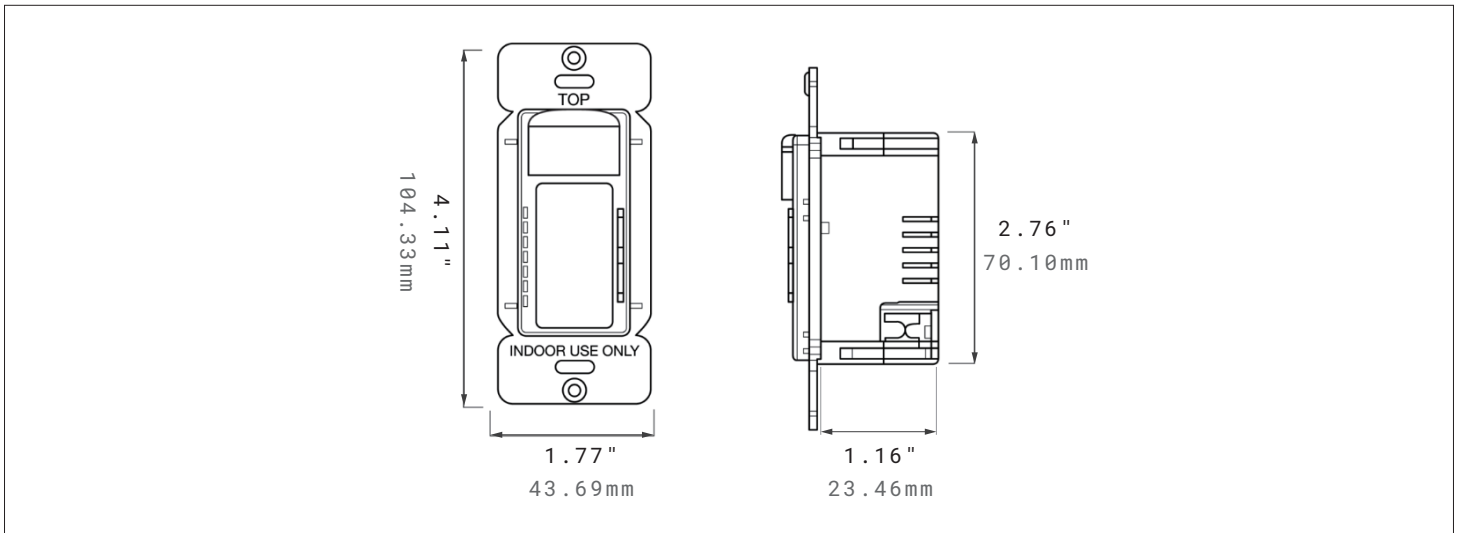
Dual-Function Control
Features both manual on/off switching and wireless dimming capabilities, allowing for precise light level adjustment through dedicated dim up/down controls.

Universal Installation
Designed to mount in any standard wall box, making it easy to replace existing single-pole switches without requiring special mounting hardware.

ORDERING INFORMATION

Description
Wireless PIR Occupancy Sensor Dimming Wall Controller, BlueMesh® (decorator plate not included)
Part Number
BMWS-M-1BT-PIR-1-BLE-SR-WH
Add Suffix for options:
WH - White
IV - Ivory
LA - Light Almond
GY - Gray
BK - Black
RD - Red
Note: White color is the standard finish. Other colors are available at an additional charge.

blueMesh

DIMENSIONS

TOP

4.11"
104.33mm

INDOOR USE ONLY
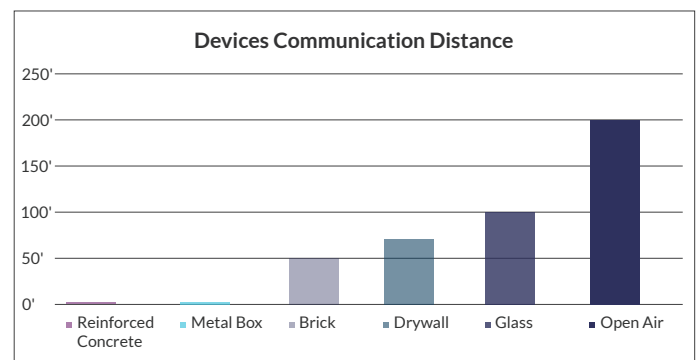
2.76"
70.10mm
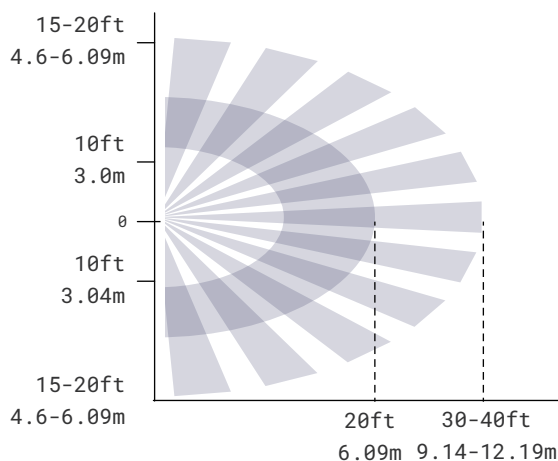
1.77"
43.69mm

1.16"
23.46mm
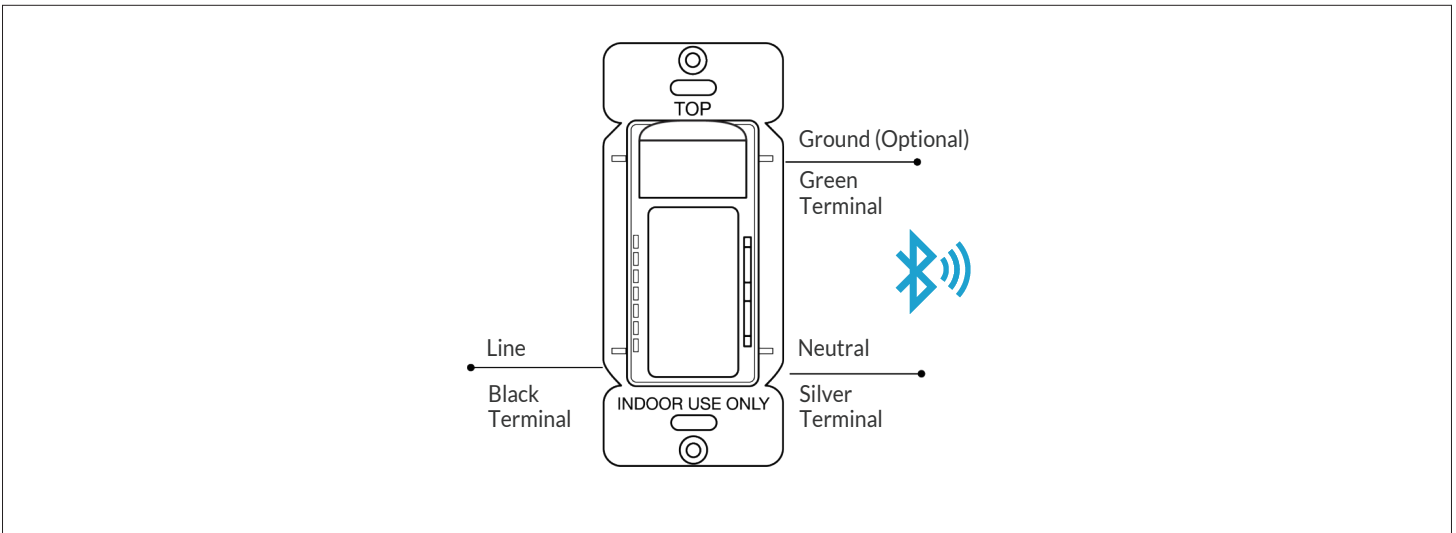
OPERATION

BlueMesh® Controls:

The BMWS-M-1BT-PIR-1-BLE-SR-WH wall controller is a Bluetooth® NLC-certified device (certified by the Bluetooth® SIG) that delivers true multi-vendor interoperability. Device and mesh network configuration are performed through the BlueMesh web portal or iOS mobile app, which handles both initial setup and ongoing parameter adjustments.

Advanced functionality—including energy monitoring and demand response—requires the BlueMesh Gateway (sold separately).

For detailed instructions, refer to the *BlueMesh® Commissioning User Manual*.

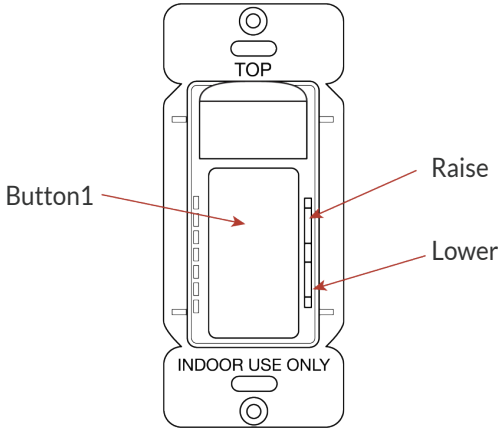## DETECTION AREA

15-20ft
4.6-6.09m

10ft
3.0m

0

10ft
3.04m

15-20ft
4.6-6.09m

20ft
6.09m

30-40ft
9.14-12.19m

Devices Communication Distance

250'
200'
150'
100'
50'
0'

Reinforced Concrete | Metal Box | Brick | Drywall | Glass | Open Air

WIRING DIAGRAM

TOP

Ground (Optional)

Green
Terminal

Line

Black
Terminal

INDOOR USE ONLY

Neutral

Silver
Terminal

WIRELESS MANUAL CONTROL

TOP

Button1

Raise

Lower

INDOOR USE ONLY

Button 1 for **On/Off**:

Short press - AUTO/ON
Second short press - OFF
Auto = Resume automatic control; turns on the automatic settings for luminaires (defined by the settings profile).
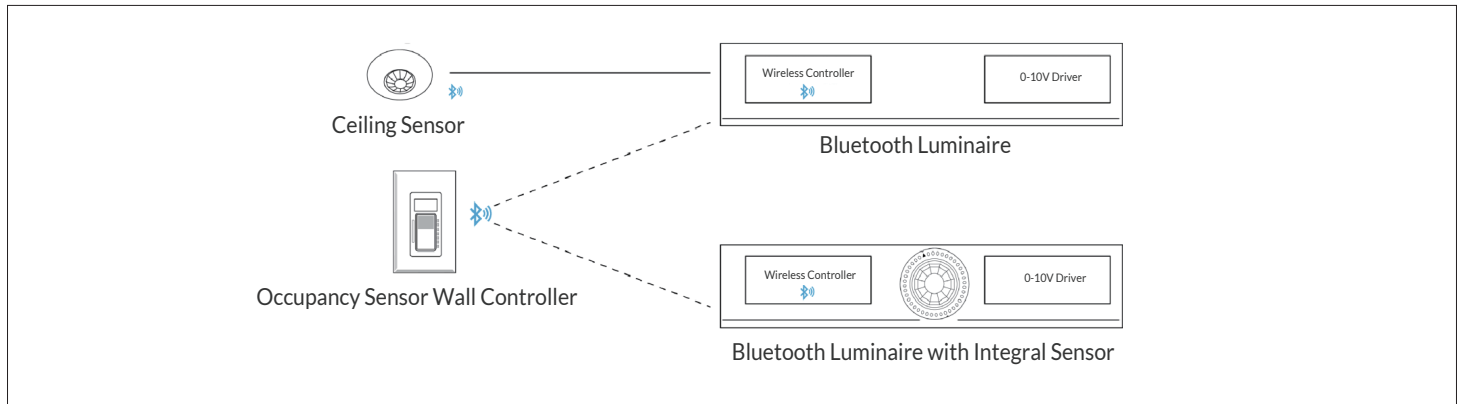
For **Dimming**:

Raise Rocker
Lower Rocker

Factory Reset:
Hold both Button 1 and Lower Toggle for 10s. The device returns to an un-provisioned state.

EXAMPLES

Ceiling Sensor

Wireless Controller

0-10V Driver

Bluetooth Luminaire

Occupancy Sensor Wall Controller

Wireless Controller

0-10V Driver

Bluetooth Luminaire with Integral Sensor

Ref#: 20250804

WARRANTY

5 years limited warranty.