

Bluetooth Phase Load Dimmer with 12V Aux Output











PRODUCT DESCRIPTION

The BMDM-R2421-1-AUX-BLE-SR Bluetooth Phase Load Dimmer delivers advanced lighting control in smart building systems, enabling flexible grouping and remote control through Bluetooth® mesh networking. Designed with standard knockouts, it features extended wireless range and robust construction for reliable performance.

ORDERING INFORMATION

Description	
Bluetooth Phase Load Dimmer	
Part Number	
BMDM-R2421-1-AUX-BLE-SR	

TECHNICAL DATA

Input		
Power Input	100-277VAC	
Output		
Aux. Power	12VDV	
Current	100mA	
Max Current	2.1A	
Wireless Protocol	Bluetooth®	
Bluetooth Range	98ft (30m)	
Operating Temperature	32°F to 104°F (0°C to 40°C)	
Relative Humidity	8% to 80%	
Certifications	UL listed, UL 2043 Plenum Rated	
Dimension	3.24" x2.16" x1.22"	
	82.5mm x55mmx31mm	

FEATURES

- Bluetooth phase dimmer.
- Compatible with BlueMesh switches.
- Built-in IoT/Sensor application interface.
- Easy junction box mounting with standard ½" knockouts.

Bluetooth Mesh Networking

Functions as a certified Bluetooth® mesh node within the system, enabling flexible grouping and central management capabilities.

Extended Wireless Range

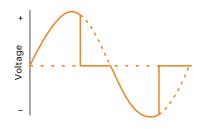
Equipped with an external antenna, it offers a typical robust Bluetooth mesh range exceeding 98ft/30m for reliable device communication.

Compatible Load Types

Load Symbol	Load Type	Maximum Load
-\\[\]-	Incandescent lighting HV Halogen lamps	1x252W@120V 1X504W@240V 1X415W@277V
	Low voltage halogen lighting with electronic transformers	1x252W@120V 1X504W@240V 1X415W@277V
-	Dimmable LED lamps	1x126W@120V 1X252W@240V 1X207W@277V

Dimming

Reverse-phase/Trailing-edge control Voltage



Note:

Default: reverse-phase dimming, configurable to forward-phase. Warning:

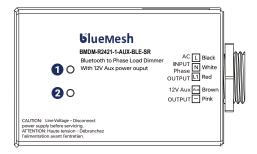
tion diagram.

DO NOT expose the device to moisture.

DO NOT install while power is applied to the device. WIRE according to the connec-



SPECIFICATION

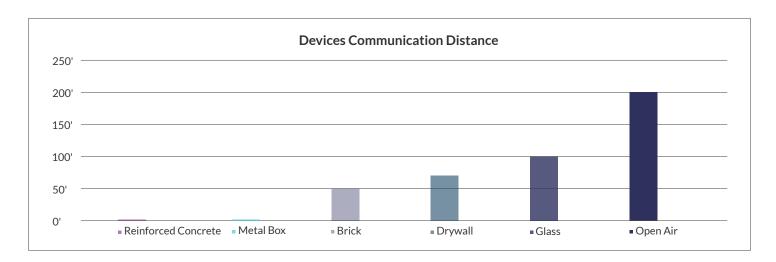


LED Indicator Indicates network status: Slow flash: Device associated with network Quick flash: Device not associated with network

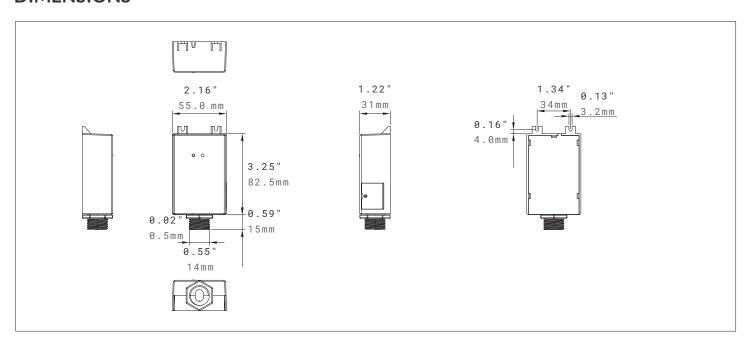
2 Reset Button

Reset: Hold for 5 seconds

Confirmation: LED quick flashing indicates successful reset

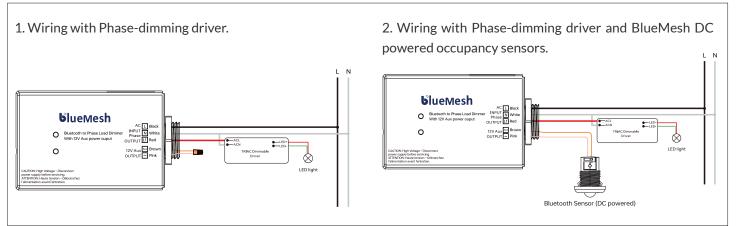


DIMENSIONS

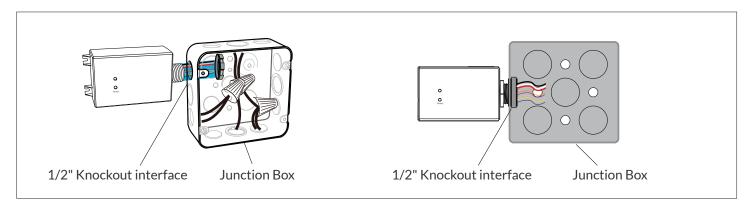




WIRING



INSTALLATION



WARRANTY

5 years limited warranty.