

## Controls

# TruBlu™ Mesh Single Channel Controller with Integral Relay

- Bluetooth® NLC Certified
- Single Channel Controller with 0-10VDC Dimming Output
- Mounts to 1/2" Knockout (Light Fixture or Enclosure)
- Features High End Trim Adjustment, Zoning & Continuous Dimming
- Sensor/Control Input (Active High) for Relay/Load Control
- Switching Relay with Zero-Crossing
- Line Voltage Input (120-277 VAC)
- 12VDC Auxiliary Output
- Approved for Lighting and Plug Loads
- Approved for Use in Plenum Applications
- Conforms with DLC NLC5 Cybersecurity Standards



## Specifications

### Description

The Wireless Room Controller is Bluetooth® NLC certified and designed to fit into a Bluetooth mesh system for wireless control of room lighting with an integral 20A relay and single channel of 0-10VDC dimming output. With an input voltage of 120-277VAC, this unit is controlled wirelessly via a qualified Bluetooth SIG Mesh network, allowing for wireless dimming of lighting and seamless integration of Bluetooth® Mesh software solutions. The unit is suited for mounting to an electrical enclosure (via 1/2" knock-out) or to a fixture/luminaire (via mounting tabs).

This controller is rated for use in plenums and offers additional features, including 12VDC auxiliary power supply for sensors or other products and load control input that operates the integral relay.

### Key Features

- Single channel wireless room controller
- 120–277 VAC input, 100 mA consumption
- 12VDC auxiliary output: 200–300 mA based on input voltage
- Sensor input: 10–14VDC, 30 mA (Active High)
- 0–10VDC output, 100 mA current sinking
- 20A relay: 16A (LED/CFL), 20A (resistive)
- 1/2" threaded nipple for fixture or enclosure mounting
- Bluetooth range 100 ft; -40°F to 104°F operating temp

### Operation

- TruBlu™ Mesh controller with Bluetooth NLC certification
- Supports true multi-vendor interoperability
- Configurable via TruBlu™ web portal or iOS app
- Optional TruBlu™ Gateway enables energy monitoring and demand response
- Single-channel 0–10VDC dimming for zone control
- 12VDC auxiliary output powers multiple sensors
- Built-in 20A relay for controlling multiple fixtures
- See TruBlu™ Commissioning Manual for more details

Note:  
1. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

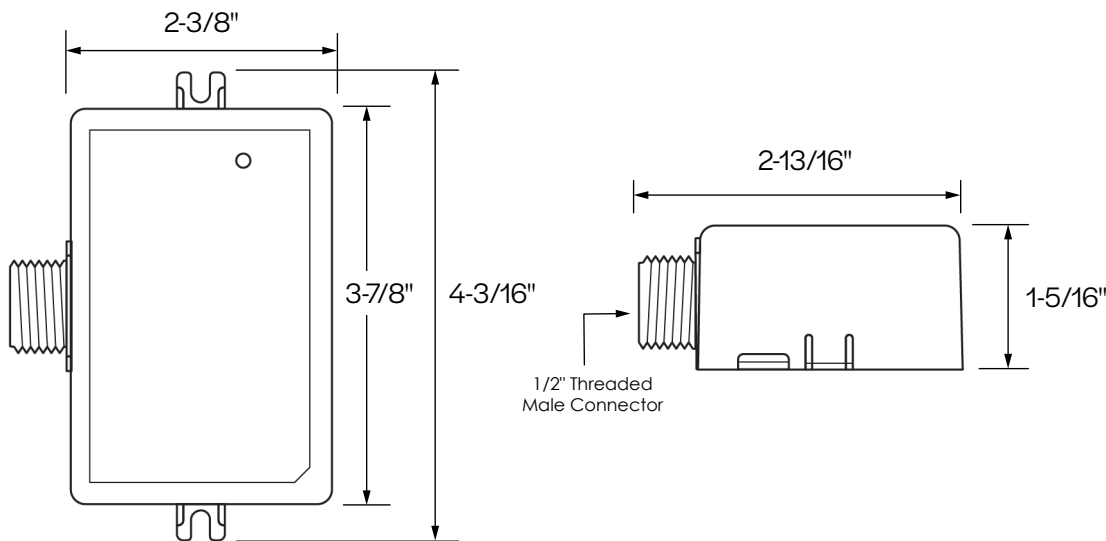
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## Ordering Information

Product SKU	Product Code	Product Description
25433	PSC-WCM-450-BLE-SR	TruBlu™ Mesh Line Voltage Single Channel Wireless Room Controller with Integral Relay

## Dimensions



## Commissioning App



Scan to Download the App for iOS Devices

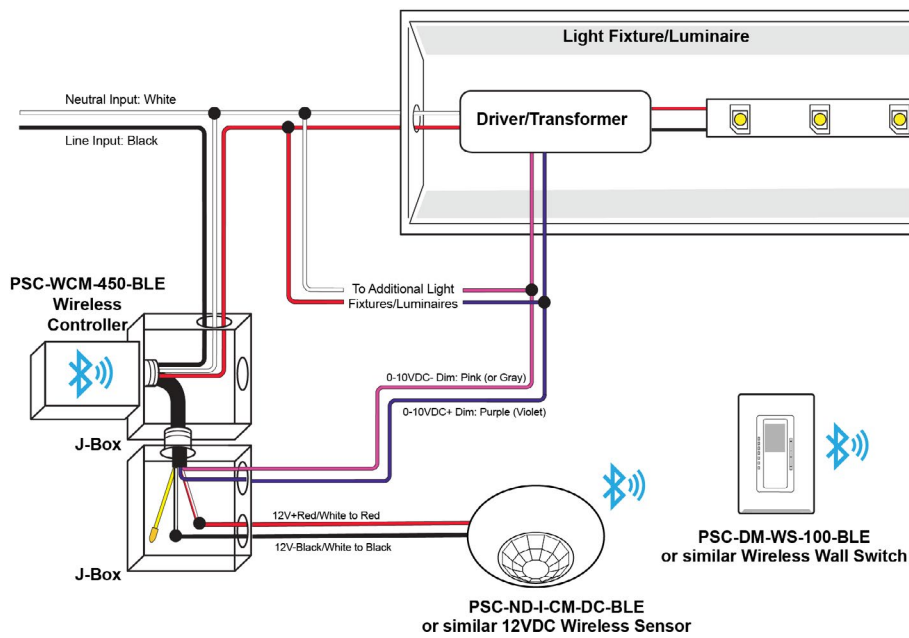
Configurable via TruBlu™ web portal or iOS mobile app

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# TruBlu™ Mesh Single Channel Controller with Integral Relay

## Wiring Application Example:

Controller Installed in Electrical Enclosure with Wireless Sensor and Wireless Switch



## Wiring Application Example:

Controller Installed In Electrical Enclosure with Wired Sensor in Fixture and Wireless Switch

