







# Overview

- Single channel controller with 0-10VDC dimming output
- Mounts to 1/2" knockout (light fixture or enclosure)
- Compatible with Casambi wireless mesh systems
- 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 outlet plug loads
- Approved for use in plenum applications
- ioXt Alliance cybersecurity certification











#### **Applications**

The Wireless Room Controller (**RLY**) provides wireless control of room lighting with an integral 20A relay and single channel of 0-10VDC dimming output. This unit is compatible with Casambi Wireless Mesh technology.

With an input voltage of 120-277VAC, this unit is suited for mounting to an electrical enclosure (via 1/2" knockout) or to a fixture/luminaire (via mounting tabs).

The **RLY** 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.

### Operation

#### **Casambi Wireless Mesh Controls:**

The controller connects to a wireless mesh network via a mobile app, available as iOS or Android, to allow initial setup and subsequent parameter adjustments.

**User Interface:** Using the mobile app, features include: setup, control real time feedback, and scheduling without a gateway or internet access.

**Single Channel Dimming:** Allows for zone control of one 0-10VDC dimming channel.

**Power Multiple Sensors:** A 12VDC auxiliary device power output is available to power multiple devices including occupancy sensors.

**Integral Relay:** Features a 20A relay to control multiple fixtures in a lighting zone.

Contact the factory for more information.

## Summary

Product Type: Single Channel Wireless Room Controller

Input Voltage | Current Consumption: 120-277VAC 50/60Hz | 100 mA

Auxiliary Power Output: 12VDC 200mA (Input Voltage up to 200VAC); 12VDC 300mA (Input Voltage over 200VAC)

Sensor Control Input: Active High 10-14VDC, 30mA

0-10VDC Output: 100mA Current Sinking

Max Load Rating (20A Relay): 16A for Elec.Ballast, LED, CFL 20A for Resistive

Mounting: 1/2" Threaded Nipple to Fixture or Electrical Enclosure

Max Bluetooth Range<sup>1</sup>: 100ft (30.4m)

Operating Temperature: -40 to 104°F (-40 to 40°C)

Storage Temperature: -40 to 185°F (-40 to 85°C)

Relative Humidity: 90-95% non-condensing

Color: White

Warranty: 5 years

#### Note

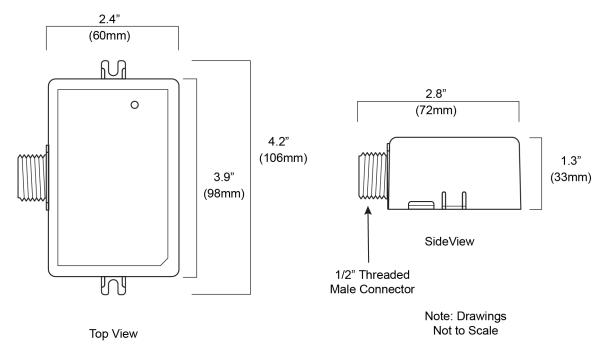
1. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for Bluetooth range accuracy.

(MW Connect model: PSC-WCM-450-BLE-CB)

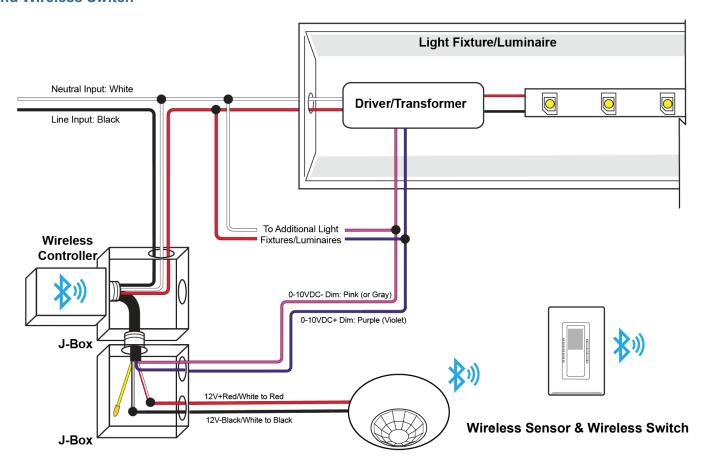




# **Physical Dimensions**

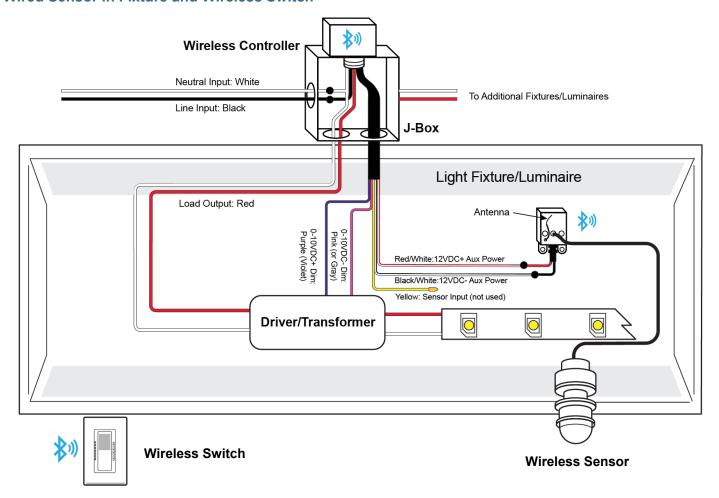


# Wiring Application Example: Controller Installed in Electrical Enclosure with Wireless Sensor and Wireless Switch





# Wiring Application Example: Controller Installed In Electrical Enclosure with Wired Sensor in Fixture and Wireless Switch



### Wiring Table

| Wire            | Designation                              | Notes  | Size  |  |  |
|-----------------|--|--|---|--|--|
| Black           | Line Input (120-277VAC)                  | Connect to Line Power (120 to 277 VAC, 50 or 60 Hz)                          |   |  |  |
| White           | Neutral Input (120-277VAC)               | Connect to Neutral Power and Luminaire Power Input                           | #12 AWG, 180+/- 20mm,<br>Strip 10, Tin Plated |  |  |
| Red             | Load Output                              | Connect to Luminaire Power Input (Voltage matches Line Input)                |   |  |  |
| Red/White       | Aux Power Output (12VDC+)                | Connect to Auxiliary Device Power Input (12VDC+)                             |   |  |  |
| Black/White     | Aux Power Output (12VDC-)                | 10VDC+ Dim Output Connect to Current Sourcing Luminaire Dim Input (0-10VDC+) |   |  |  |
| Purple (Violet) | 0-10VDC+ Dim Output<br>(Current Sinking) |  |   |  |  |
| Pink (or Gray)  | 0-10VDC- Dim Output<br>(Current Sinking) | Connect to Current Sourcing Luminaire Dim Input (0-10VDC–)                   | Strip 10mm Tin Plated                         |  |  |
| Yellow          | Load Control Input (12VDC)               | Connect to Sensor Output or Similar Device (Active High)                     |   |  |  |

#### **How to Order**

| Accessory | Description   | Input Voltage | Relay | Dimming<br>Output | Aux.<br>Output | Sensor<br>Input |
|-----------|---|---------------|-------|-------------------|----------------|-----------------|
| RLY       | Casambi Bluetooth Mesh Line Voltage Single Channel Wireless Room Controller with Integral Relay | 120-277VAC    | 20A   | 0-10V, 100mA      | 12V,300mA      | YES             |

Note: RLY is compatible with Casambi devices

