

## Ingy Mesh Single Channel Controller with Integral Relay

### Overview

- Single Channel Controller with 0-10VDC Dimming Output
- Mounts to 1/2" Knockout (Light Fixture or Enclosure)
- Compatible with Ingy Wirepas Mesh Systems
- Features High End Trim Adjustment, Zoning & Continuous Dimming
- Switching Relay with Zero-Crossing
- Sensor/Control Input (Active High) for Relay/Load Control
- Line Voltage Input (120-277 VAC)
- 12VDC Auxiliary Output
- Approved for Lighting and Plug Loads
- Approved for Use in Plenum



### Applications

The Wireless Room Controller (PSC-WCM-450-WPS-NG) is made to fit into a Wirepas 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 mesh network, allowing for wireless dimming of lighting and seamless integration of Wirepas Mesh software solutions. The unit is suited for mounting to an electrical enclosure (via 1/2" knockout) or to a fixture/luminaire (via mounting tabs).

The PSC-WCM-450-WPS-NG 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

**Ingy Wirepass Mesh:** The controller is compatible with a Wirepas mesh network and configured via Ingy software.

**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.

See the Ingy Commissioning User Manual 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 Wireless Range<sup>1</sup>:** 100ft (30.4m)

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

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

**Relative Humidity:**  
90-95% non-condensing

**Color:** White

**Warranty:** 5 years

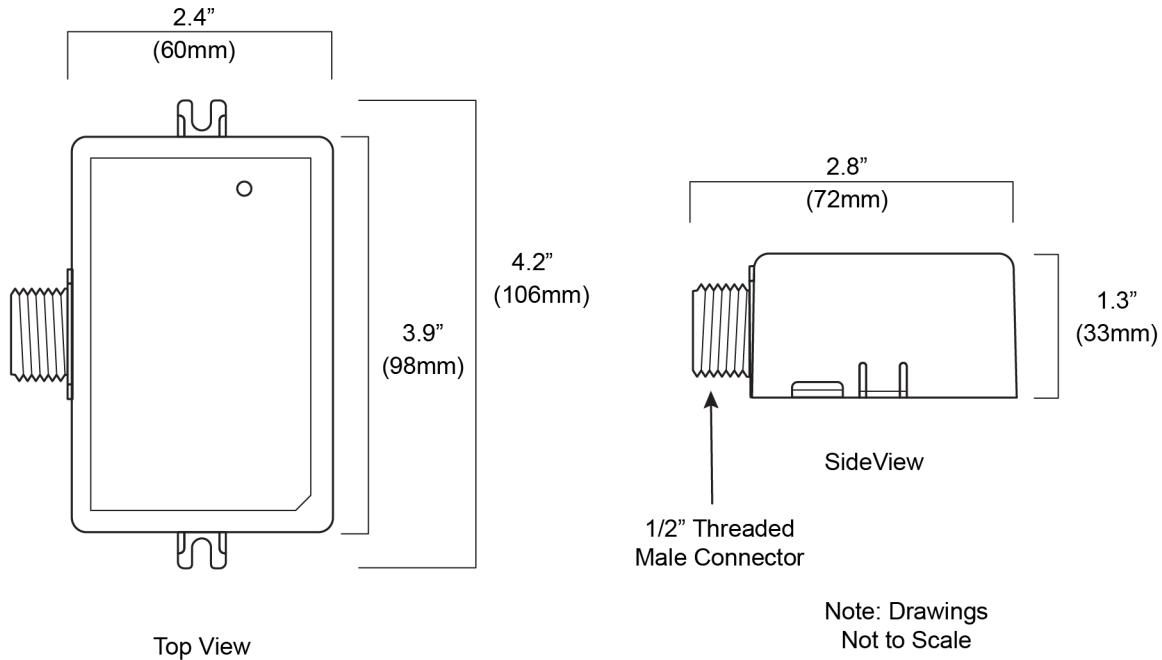
**Note:**

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

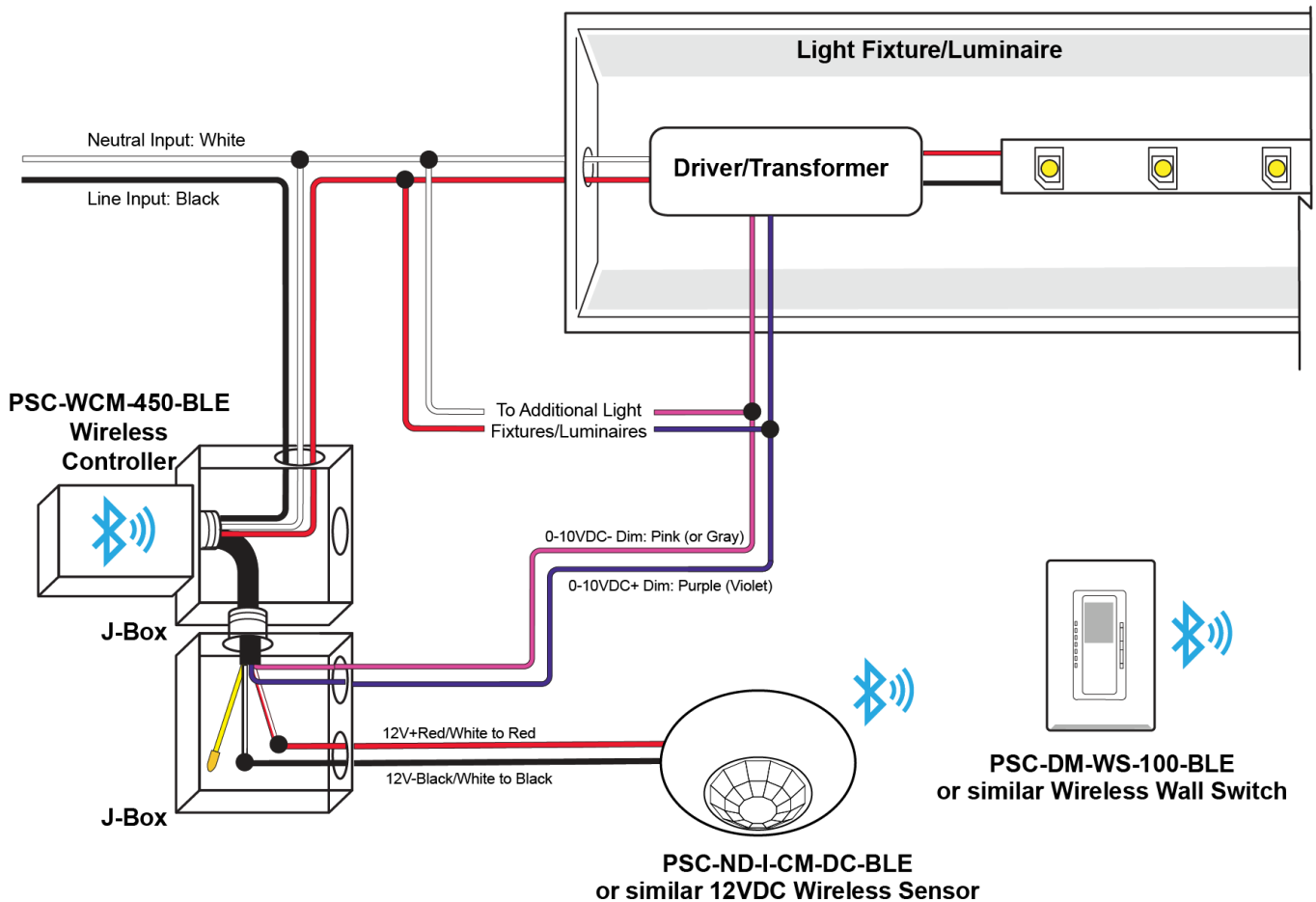
Project

Location/Type

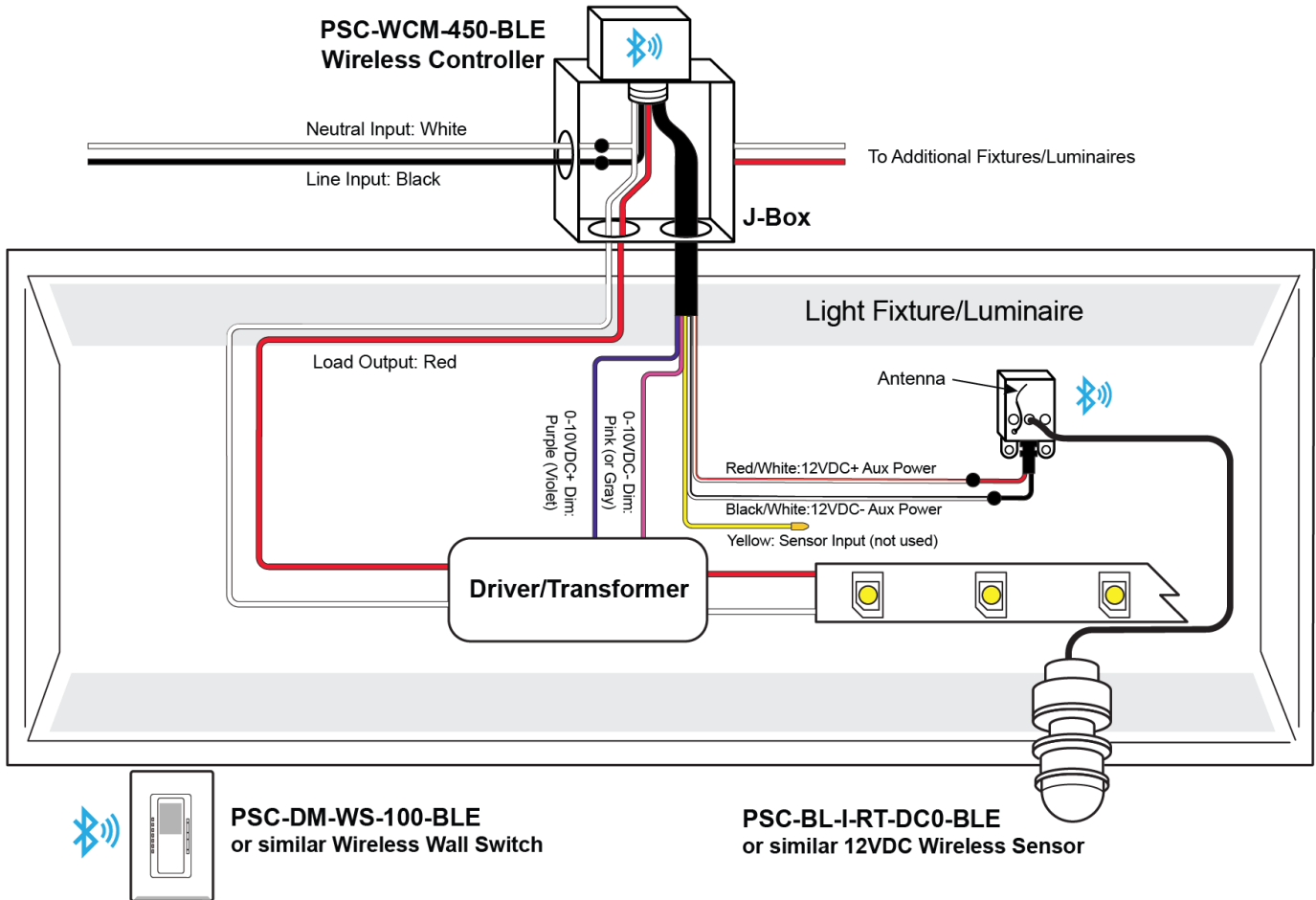
## Physical Dimensions



## 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)	#12 AWG, 180+/- 20mm, Strip 10, Tin Plated
White	Neutral Input (120-277VAC)	Connect to Neutral Power and Luminaire Power Input	
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+)	#22 AWG, 180+/-20mm, Strip 10mm Tin Plated
Black/White	Aux Power Output (12VDC-)	Connect to Auxiliary Device Power Input (12VDC-)	
Purple (Violet)	0-10VDC+ Dim Output (Current Sinking)	Connect to Current Sourcing Luminaire Dim Input (0-10VDC+)	
Pink (or Gray)	0-10VDC- Dim Output (Current Sinking)	Connect to Current Sourcing Luminaire Dim Input (0-10VDC-)	
Yellow	Load Control Input (12VDC)	Connect to Sensor Output or Similar Device (Active High)	

### How To Order

Model No.	Description	Input Voltage	Relay	Dimming Output	Aux. Output	Sensor Input
PSC-WCM-450-WPS-NG	Ingy Wirepas Mesh Line Voltage Single Channel Wireless Room Controller with Integral Relay	120-277VAC	20A	0-10V, 100mA	12V, 300mA	YES

Design and specifications are subject to change without notice.