

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-IG) 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-IG 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 Range¹: 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

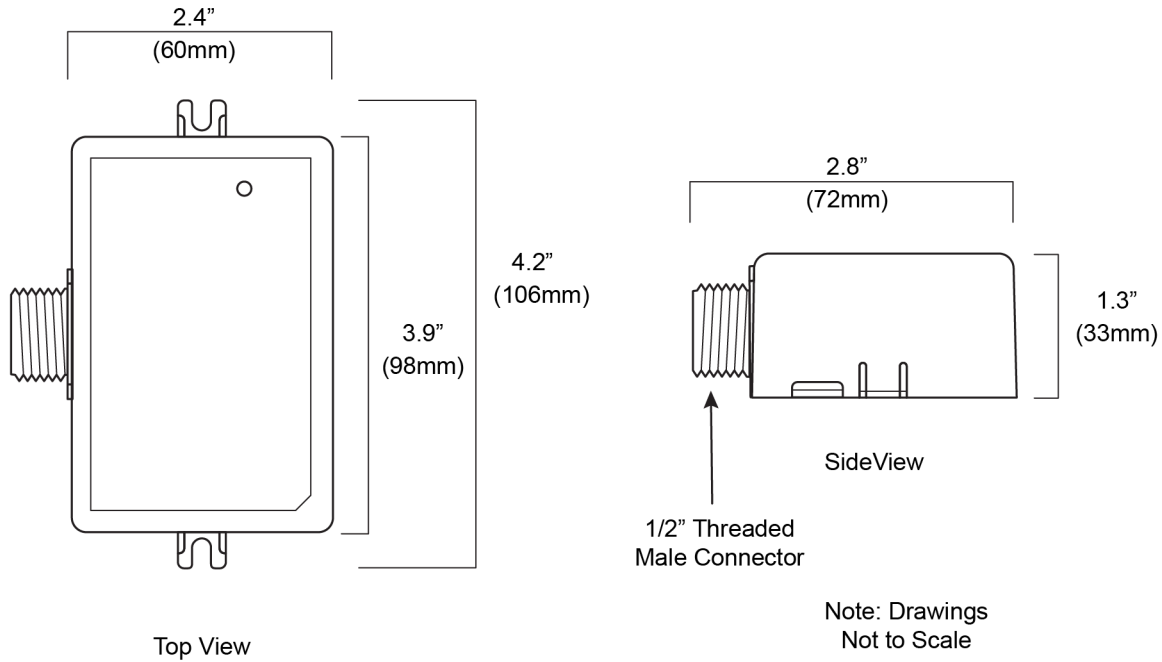
Warranty: 5 years

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

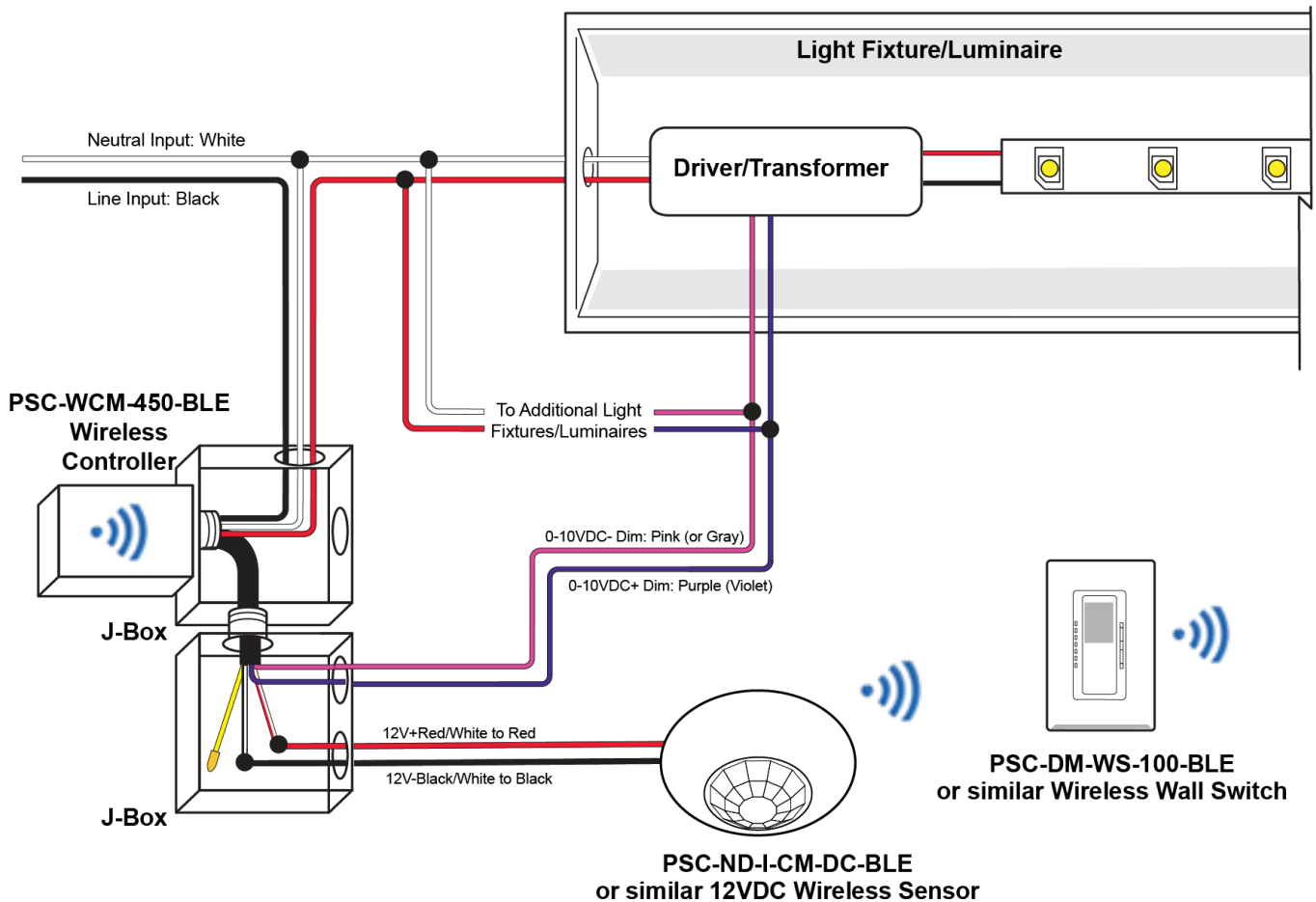
Project

Location/Type

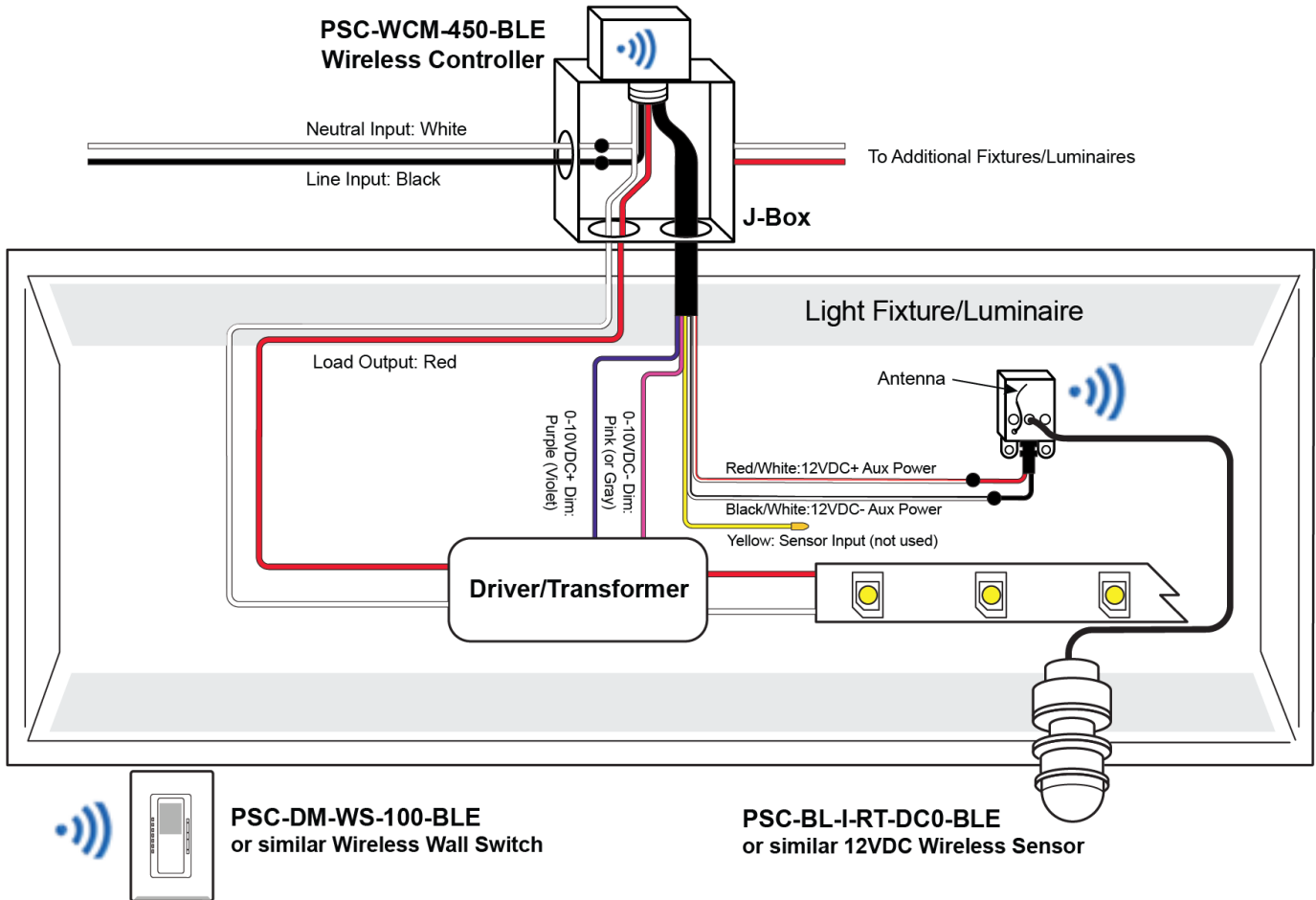
Physical Dimensions



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-IG	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.