Single Channel Wireless Room Controller
PSC-WCM-WS-450-BLE-XI

Overview

Bluetooth® Xicato Xmesh™ Compatible

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)

12V DC Auxiliary Output

Approved for Lighting and Plug Loads

Approved for Use in Plenum Applications

E341446

Applications

Xicato's Wireless Room Controller (PSC-WCM-450-BLE-XI) provides wireless control of room lighting with an integrated 20A relay and single channel of 0-10VDC dimming output, with seamless integration into Xicato Xmesh™ .

With an input voltage of 120-277VAC, this unit can dim lights and switch other load for whole room control solutions. The unit can be mounted to an electrical enclosure (via 1/2" knockout) or to a fixture/luminaire (via mounting tabs).

The PSC-WCM-450-BLE-XI is plenum rated and offers additional features, including 12VDC auxiliary power supply for sensors or other products and load control input that operates the integrated relay.

Operation

Xicato Xmesh™ controls provide a seamless Bluetooth based mesh control system for a room, floor, building or site. The controls system includes lights, switches, load controllers, gateways for easy integration with BMS and other lighting control systems, as well as cloud connectivity for remote monitoring and/or control. Key features of Xicato's Xmesh™ controls system are auto-discovery of new devices making it easy to expand your system with both devices and capabilities after initial installation.

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

Power Multiple Sensors: a 12V DC auxiliary device power output is available to power multiple devices including occupancy sensors.

Integrated Relay: features a 20A relay to control multiple fixtures in a lighting zone.

See the Xicato Controls Platform Manual for more information.

Specifications

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 10-24VDC, 30mA

0-10VDC Output: 100mA Current Sinking

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

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

Max Bluetooth Range[1]: 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)
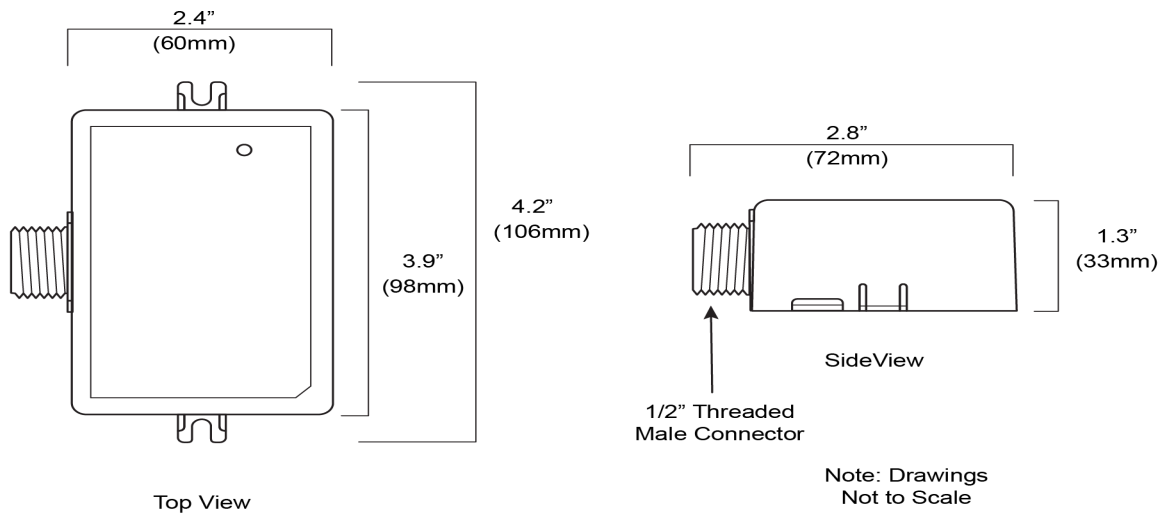
Relative Humidity: 90-95% non-condensing

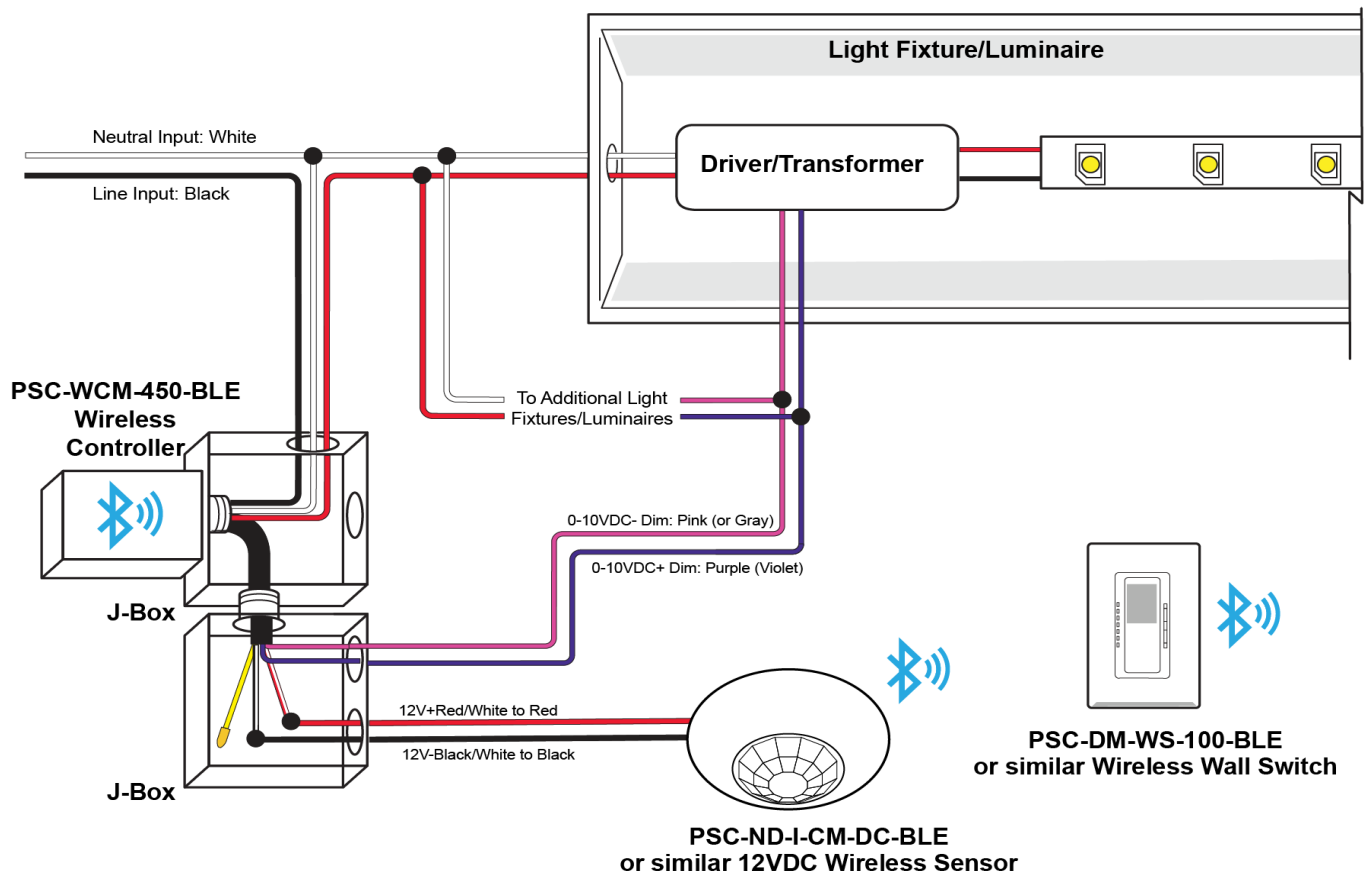**Color**: White

Warranty: 5 years

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

Physical Dimensions

2.4"
(60mm)

4.2"
(106mm)

3.9"
(98mm)

2.8"
(72mm)

1.3"
(33mm)

SideView

1/2" Threaded
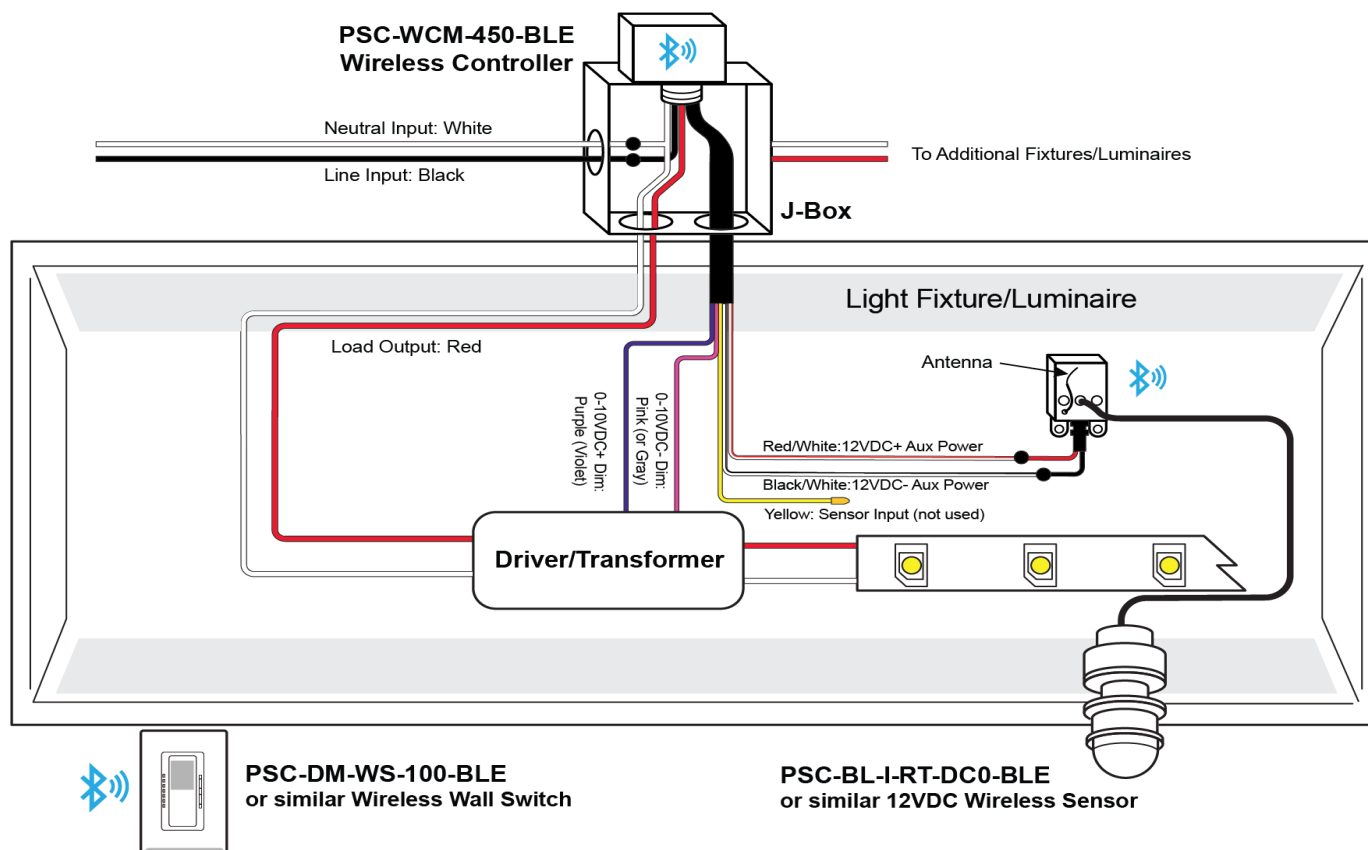Male Connector

Note: Drawings
Not to Scale

Top View

PSC-WCM-450-BLE dimension drawing

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

Light Fixture/Luminaire

Driver/Transformer

Neutral Input: White

Line Input: Black

PSC-WCM-450-BLE
Wireless
Controller

J-Box

To Additional Light
Fixtures/Luminaires

0-10VDC- Dim: Pink (or Gray)

0-10VDC+ Dim: Purple (Violet)

J-Box

12V+Red/White to Red

12V-Black/White to Black

PSC-ND-I-CM-DC-BLE
or similar 12VDC Wireless Sensor

PSC-DM-WS-100-BLE
or similar Wireless Wall Switch

WCM-450 Controller with Wireless Sensor, Wireless Wall Switch and 0-10V Driver

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

WCM-450-BLE 20A Zone Controller with 0-10V Dimmable Driver Fixture Mounted PIR Sensor and Wall Control

Wiring Table

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

PSC-WCM-450-BLE-XI	Xicato Xmesh™ Line Voltage Single Channel Wireless Room Controller with Integrated Relay	120-277VAC	20A	0-10V, 100mA	12V, 300mA	YES

Design and specifications are subject to change without notice.