![mwConnect logo]

Wireless Single Channel Fixture Controller

Suitable For indoor Use Only

Overview

- 1-Channel 0-10VDC Dimming
- Mounts In Fixture Or Electrical Enclosure
- Bluetooth® SIG mesh
- High-End Trim, Zoning, Continuous Dimming
- Active High Output For Sensor Or Relay Drive
- Sensor Input
- Conforms With DLC NLC5 Cybersecurity Standards

E341446

Applications

The PSC-WCM-60-BLE-SR Wireless Fixture Controller features a sensor input, a control output for relay load control and one channel of 0-10V dimming.

PSC-WCM-60-BLE-SR is controlled wirelessly via Bluetooth® Mesh technology allowing for wireless dimming of LED lighting. The compact size allows for seamless integration to the fixture.

Accessories

Power Pack: The PSC-WCM-60-BLE-SR operates on 12-24 VDC input and requires a separate mwConnect PacWave™ power pack. See mwConnect PacWave™ Power Pack data sheets.

Alternatively, the unit can also operate with a driver that has an auxiliary output (12-24VDC).

Operation

TruBlu™ Mesh Controls: Qualified by Bluetooth SIG for its Bluetooth Mesh 1.0.1 specification, the controller connects to a Bluetooth mesh network and is accessed via the TruBlu web portal or mobile app for initial design, setup and scheduling, as well as subsequent parameter adjustments.

Advanced functionality such as energy monitoring, and demand response is available with the optional TruBlu Gateway (sold separately).

1-Channel Dimming: Allows for one 0-10V dimming channel for zone control.

Relay Control: Control Output (active high) can be used to trigger relays or other control circuitry.

Sensor Input: 10-22VDC sensor input for interfacing sensors into Bluetooth Mesh systems.

See the TruBlu™ Commissioning User Manual for more information.

Summary

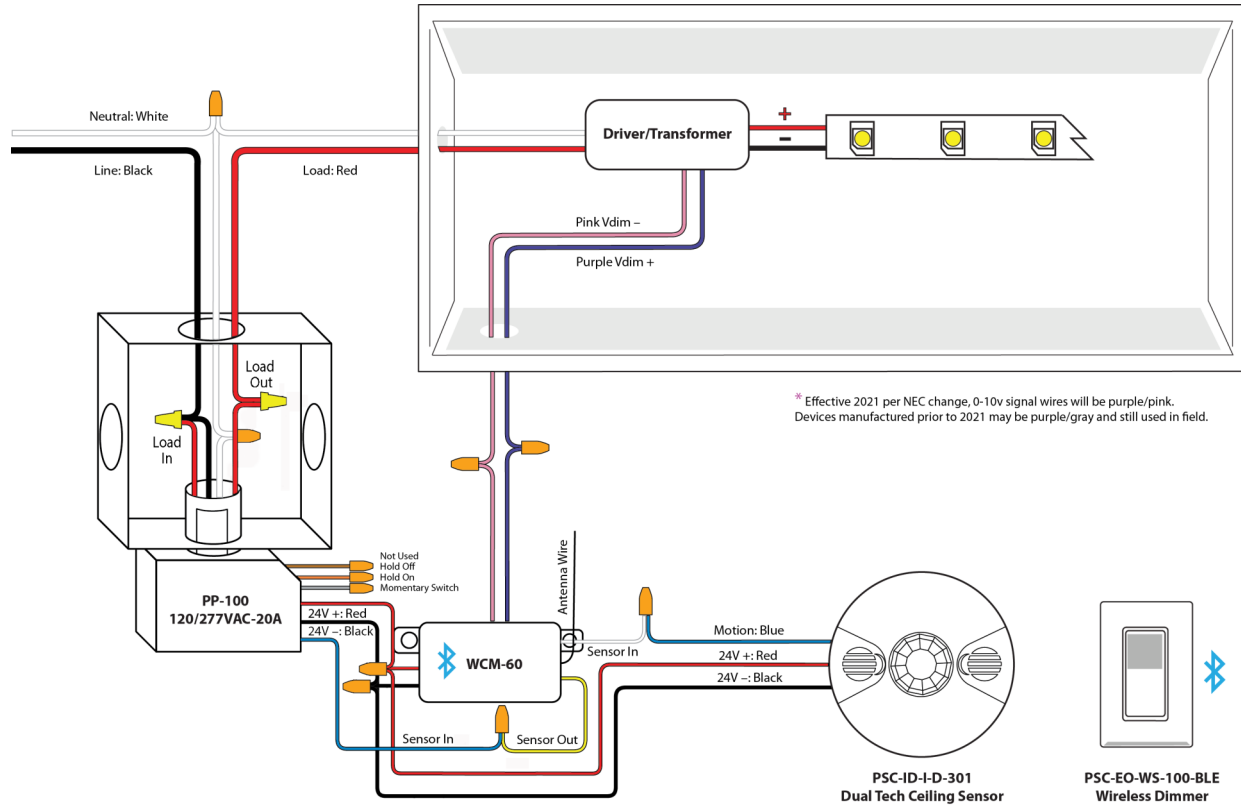| Summary	
Product Type: 1-Channel Fixture Controller	
Input Voltage | Current Consumption: 12-24 VDC | 100 mA	
Sensor Input: 8-24VDC	
0-10V Output 30 mA	
Control Output: Active High—Vin-2.5 V 30mA source for sensor or relay	
Mounting: Fixture Mount	
Max Bluetooth Range[1]: 100ft (30.4m)	
Operating Temperature: -30° C to 70°C	
Storage Temperature: -40° C to 80°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 range accuracy.
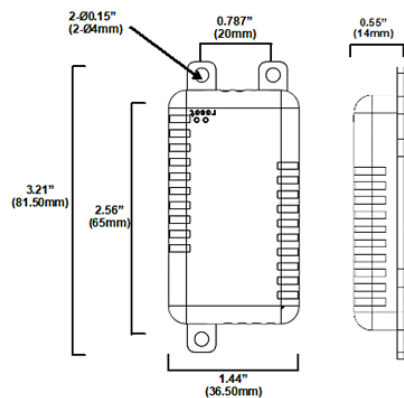
Project	
Location/Type	

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Example Application: Controller Installed With Power Pack, Wired Sensor And Wireless Switch

Neutral: White
Line: Black
Load: Red

Driver/Transformer
+
−

Pink Vdim −
Purple Vdim +

Load Out
Load In

* Effective 2021 per NEC change, 0-10v signal wires will be purple/pink. Devices manufactured prior to 2021 may be purple/gray and still used in field.

Not Used
Hold Off
Hold On
Momentary Switch

PP-100
120/277VAC-20A

24V +: Red
24V −: Black

WCM-60

Antenna Wire

Sensor In
Motion: Blue
24V +: Red
24V −: Black

Sensor In
Sensor Out

PSC-ID-I-D-301
Dual Tech Ceiling Sensor

PSC-EO-WS-100-BLE
Wireless Dimmer

Physical Dimensions

2-Ø0.15" (2-Ø4mm)
0.787" (20mm)
0.55" (14mm)
3.21" (81.50mm)
2.56" (65mm)
1.44" (36.50mm)

Drawings Are Not To Scale

Wiring Table

Wire	Designation	Notes	Size
Black	12-24VDC- Power Input	Power Input	#18 AWG, 180+/-20mm, Strip 10mm Tin Plated
Red	12-24VDC+ Power Input	Power Input	
Purple (Violet)	0-10VDC+ Dim Output	Luminaire Control Output	#22 AWG, 180+/-20mm, Strip 10mm Tin Plated
Pink/Gray	0-10VDC- Dim Output	Luminaire Control Output	
Yellow	10-22VDC Control Output	Output for Controlling Power Pack or Similar Devices (Active High 30mA)	
White	12-24VDC Control Input	Control Input from Sensor or Similar Device (Active High)	

How to Order

Model No.	Description	Input Voltage	Output
PSC-WCM-60-BLE-SR	Wireless Fixture Controller, Single Channel, Sensor Input, Bluetooth Mesh in TruBlu,™ Silvair Technology Partner	12-24 VDC	0-10V,30mA Control High

For line to low voltage power supply/controller, please see mwConnect PacWave™ power pack data sheets.
Design and specifications are subject to change without notice..