

Wireless Single Channel Fixture Controller 10A

Overview

- 1 Channel 0-10VDC Dimming
- Mounts To Electrical Box Or Light Fixture
- Bluetooth® SIG mesh
- High-End Trim, Zoning, Continuous Dimming
- Relay With Zero-Crossing
- 120-277VAC Input Voltage
- Conforms With DLC NLC5 Cybersecurity Standards



Suitable For Indoor Use Only



Applications

The Wireless Fixture Controller (PSC-WCM-300-BLE-SR) allows for one channel of 0-10VDC dimming, and has a 10A relay for turning on and off multiple fixtures in the same zone. The unit is controlled via a Bluetooth mesh system.

With input voltage of 120-277VAC, this unit has a 1/2" threaded male connector for attachment to an electrical box or fixture mounting. The unit also has two tabs for mounting,

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 TruBlu Gateway (ordered separately).

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

Relay: 10A relay to control multiple fixtures in a lighting zone.

Low voltage wires are in heat shrink tubing as a barrier from line voltage wiring (UL approved).

See the TruBlu™ Commissioning User Manual for more information.

Summary

Product Type:
Wireless Fixture Controller

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

0-10VDC Output: 30 mA sink

Load Rating (10A Relay):
Max.10A, E. Ballast, LED, CFL
Max.10A, Resistive

Mounting:
Light Fixture or Electrical Box.

Max Bluetooth Range¹:
100ft (30.4m)

Operating Temperature:
-40° C to 40° C

Storage Temperature:
-40° C to 85° C

Relative Humidity:
90-95% non-condensing

Color: White

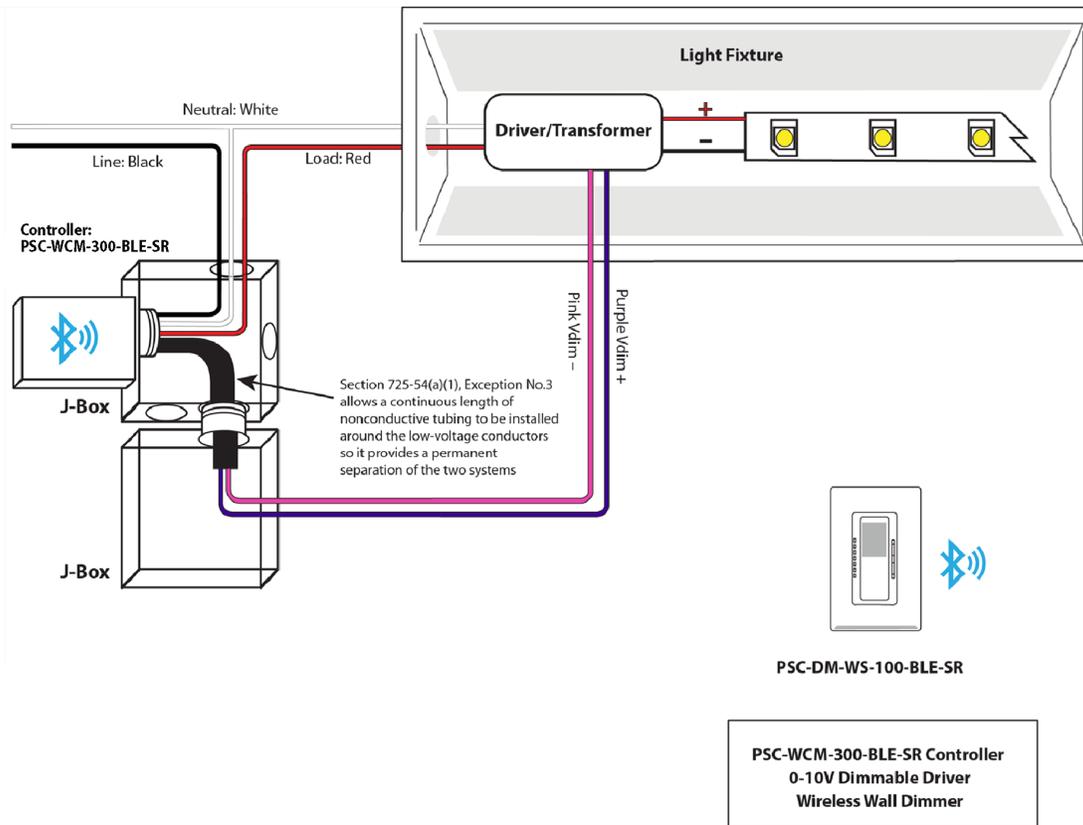
Warranty: 5 years

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

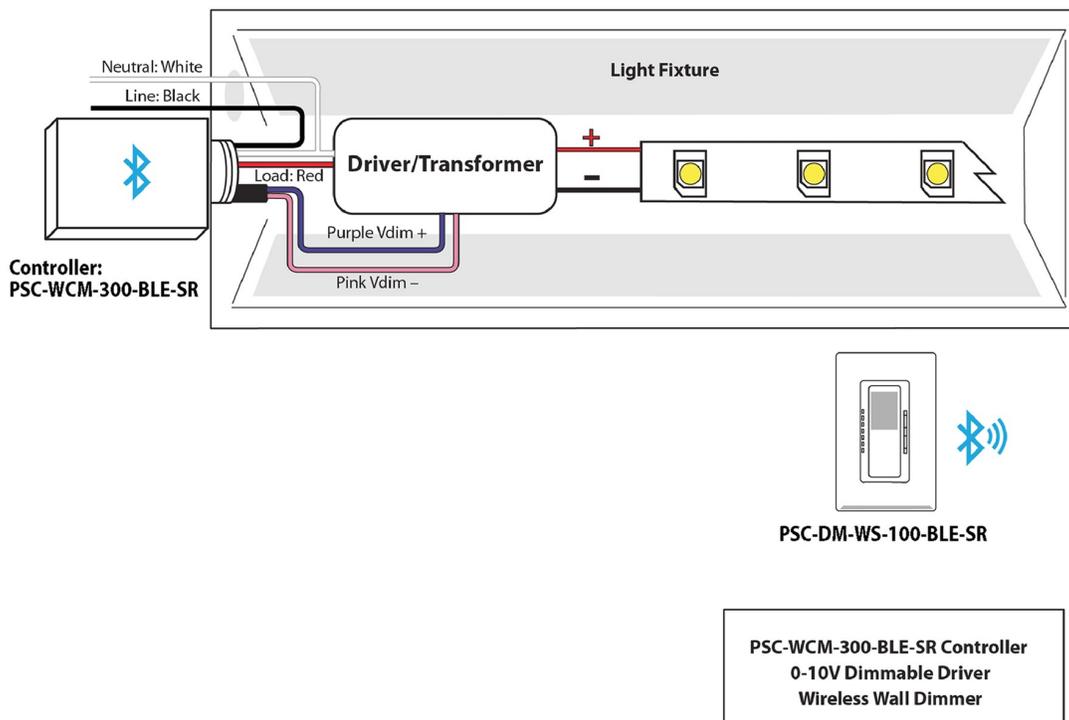
Project

Location/Type

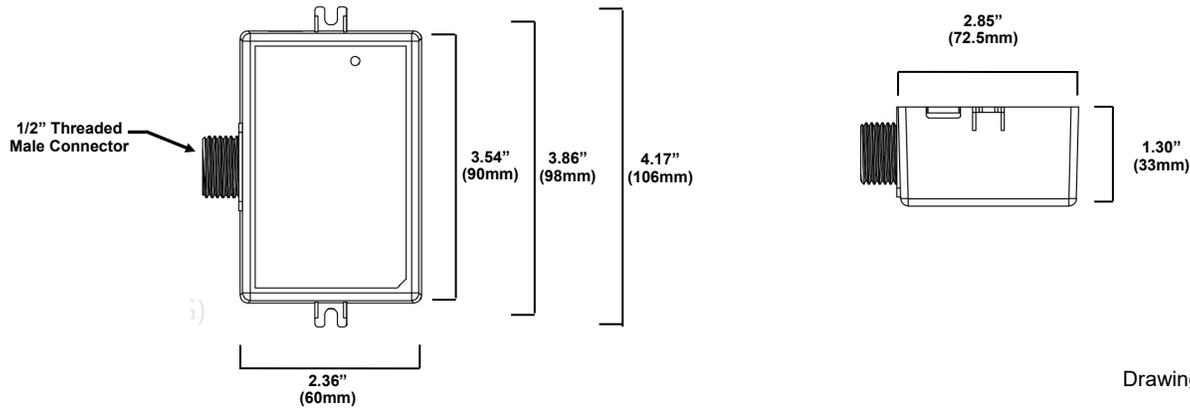
Wiring Example Application: Controller Mounted On Electrical Box



Wiring Example Application: Controller Mounted On Fixture



Physical Dimensions



Wiring Table

Wire	Designation	Notes	Size
Black	Line Input	Connect to Line Power	#14 AWG, 180+/-20mm, Strip 10mm Tin Plated
White	Neutral Input	Connect to Neutral Power and Luminaire Power Input	
Red	Load Output	Connect to Luminaire Power Input	
Purple	0-10V+ Dim Output	Connect to Luminaire Dim Input (0-10V+)	#22 AWG, 180+/-20mm, Strip 10mm Tin Plated
Pink	0-10V- Dim Output	Connect to Luminaire Dim Input (0-10V-)	

How to Order

Model No.	Description	Input Voltage	Relay	Dimming Output	Aux. Output	Sensor Input
PSC-WCM-300-BLE-SR	TruBlu™ Wireless Line Voltage Fixture Controller Silvair technology partner	120-277VAC	10A	0-10V, 30mA	NA	NA

Design and specifications are subject to change without notice.