

Wireless Fixture Controller with Quick Connector

Overview

- 1-Channel 0-10VDC Dimming
- Mounts On Fixture
- Bluetooth® SIG mesh
- High-End Trim, Zoning, Continuous Dimming, Photocell (ZKV-110 version)
- Powered by12-24VDC
- Sensor Output (active high)
- IP-65 Outdoor And Indoor Applications
 - Quick Connector For Easy Installation



For Indoor Or Outdoor Use Receptacle Sold Separately



Applications

The PSC-ZKV-WCM-100-BLE-SR and the PSC-ZKV-WCM-110-BLE-SR are a series of 1-Channel Wireless Fixture Controllers. Both versions have active high outputs for relay control.

The controllers are IP65 rated for exterior use. They are suitable for a variety of indoor and outdoor applications in temperatures ranging from -40° to 70°C. The PSC-ZKV-WCM-110-BLE-SR version also has an integral photosensor.

These devices are controlled wirelessly via Bluetooth® Mesh technology allowing for wireless dimming of luminaires. The compact size allows for seamless integration to the fixture.

Accessories

Power Pack: The PSC-ZKV-WCM-100-BLE-SR and the PSC-ZKV-WCM-110-BLE-SR operates on 12-24VDC input and require 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 or 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 TruBlu Gateway (ordered separately).

1-Channel: Outputs 0-10 dimming channel for driver control.

Relay Control: 10-22VDC active high output to control relays or other control circuitry.

Photosensor (PSC-ZKV-WCM-110-BLE -SR version only): Features a single setpoint for ambient light detection for automated control.

Quick Connector: The controller mounts to a receptacle (mwConnect part# ZKV-R1L). One receptacle is required for mounting each controller.

See TruBluTM Commissioning User Manual for more information.

Summary

Product Type:
1-Channel Fixture Controller
(-110-model includes photosensor)
Input Voltage | Current Consumption:
12-24 VDC | 100 mA

0-10VDC Output: 30 mA

Load Control Output—10-22VDC 30mA (Active High)

Fixture Mount: Mounts to mwConnect PSC-ZKV-R1L receptacle, sold separately.

Max Bluetooth Range¹: 100ft (30.4m)

Operating Temperature: -30° C to 70°C

Storage Temperature: -40° C to 85°C

Relative Humidity: 90-95% non-condensing at 30°C

Color: Brown (standard default), Black or White

Warranty: 5 years

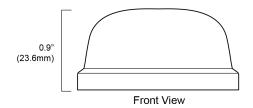
Note:

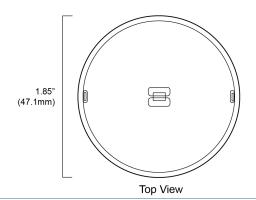
 Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

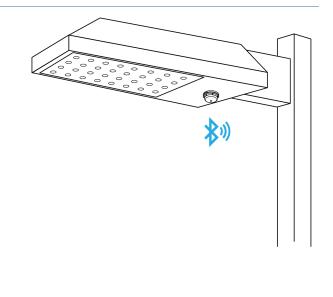
Project	
Location/Type	



Physical Dimensions



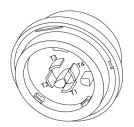




Drawing Are Not To Scale

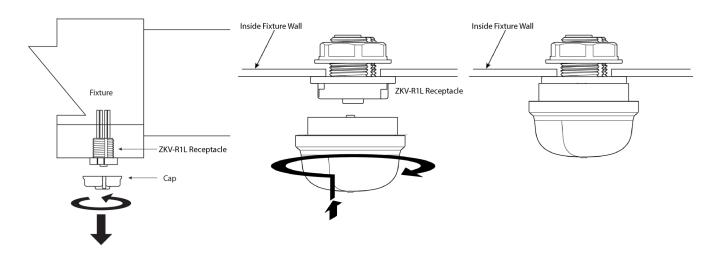
Installation Of Controller





Tab/Slot	Designation	Notes	
T1	12-24VDC+ Power To Controller	Red Wire (Receptacle)	
T2	12-24VDC- Power And 0-10VDC-/Common	Black Wire (Receptacle)	
Т3	0-10VDC+ Control Signal From Controller	Purple (Violet) Wire (Receptacle)	
T4	Vin-2.5V 30mA Load Control Output (Active High)	Yellow Wire (Receptacle)	

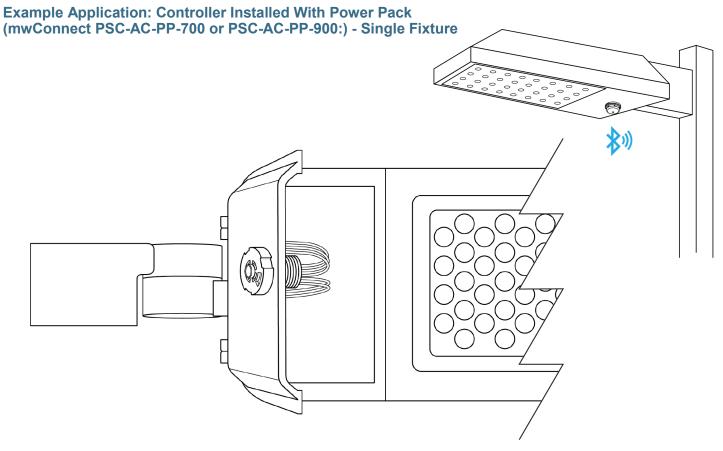
The receptacle for ZKV controller is installed at fixture manufacturer and is shipped to job site with a protective cap.



To install ZKV controller, first remove the protective cap on the ZKV-1RL receptacle by pushing up and rotating counterclockwise.

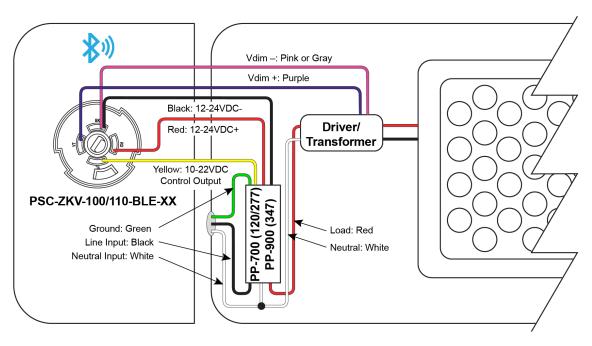
To install ZKV controller insert, push up and rotate to lock. No tools required. Luminaires can be easily and quickly upgraded.





ZKV-R1L Receptacle on Outside of Fixture

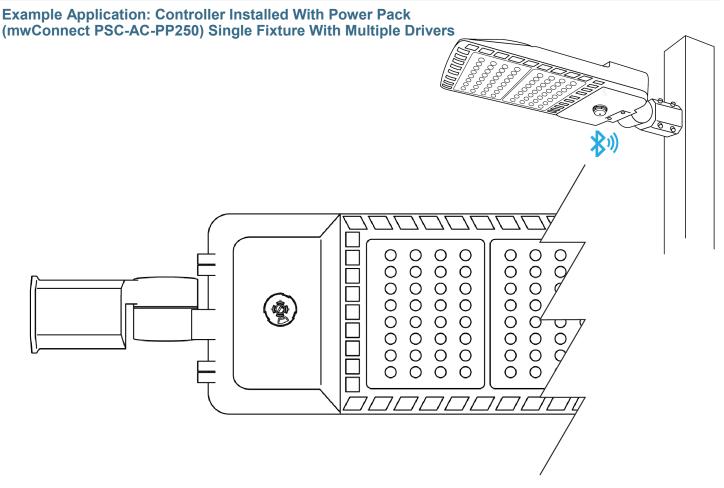
Drawings Are Not To Scale



ZKV-R1L Receptacle with PP-700 Power Pack and LED Dimmable Driver (open wiring compartment)

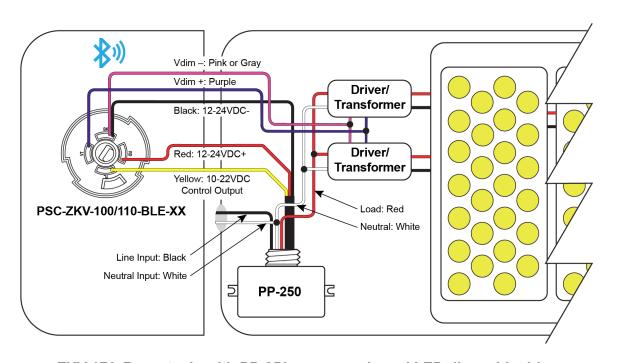






ZKV-R1L Receptacle on Outside of Fixture

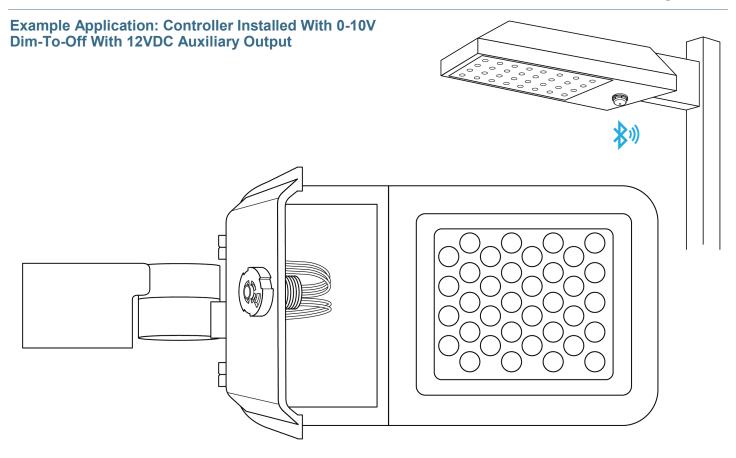
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ZKV-1RL Receptacle with PP-250 power pack, and LED dimmable driver (open wiring compartment)

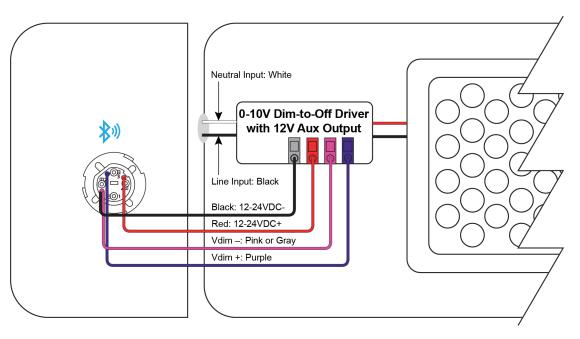






ZKV-R1L Receptacle on outside of fixture

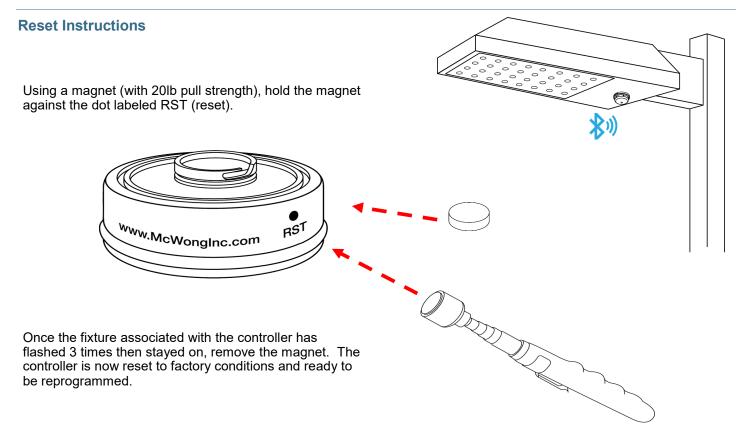
Drawings Are Not To Scale



ZKV Receptacle, 0-10V Dim to off driver with 12v auxiliary output (open wiring compartment)







How To Order

Model No.	Description	Input Voltage	Output
PSC-ZKV-WCM-100-BLE-SR-BN	Fixture Controller with 0-10V Dimming, Bluetooth Mesh in TruBlu [™] , standard Brown Color, Silvair technology partner	12-24VDC	Control High 0-10V Dimming
PSC-ZKV-WCM-110-BLE-SR-BN	Fixture Controller with 0-10V Dimming, Light Sensing, Bluetooth Mesh in TruBlu [™] , standard Brown Color, Silvair technology partner	12-24VDC	Control High 0-10V Dimming
PSC-ZKV-WCM-100-BLE-SR-WT	Fixture Controller with 0-10V Dimming, Bluetooth Mesh in TruBlu [™] , White Color, Silvair technology partner	12-24VDC	Control High 0-10V Dimming
PSC-ZKV-WCM-110-BLE-SR-WT	Fixture Controller with 0-10V Dimming, Light Sensing, Bluetooth Mesh in TruBlu [™] , White Color , Silvair technology partner	12-24VDC	Control High 0-10V Dimming
PSC-ZKV-WCM-100-BLE-SR-BK	Fixture Controller with 0-10V Dimming, Bluetooth Mesh in TruBlu [™] , Black Color, Silvair technology partner	12-24VDC	Control High 0-10V Dimming
PSC-ZKV-WCM-110-BLE-SR-BK	Fixture Controller with 0-10V Dimming, Light Sensing, Bluetooth Mesh in TruBlu [™] , Black Color, Silvair technology partner	12-24VDC	Control High 0-10V Dimming
PSC-ZKV-R1L	Receptacle for Fixture Controller	12-24VDC	

Design and specifications are subject to change without notice.

