

Casambi Mesh 0-10V Outdoor Controller with Long Range Antenna

Overview

- Single Channel Controller with 0-10VDC Dimming Output
- Integral Long Range Antenna
- Mounts to Light Fixture/Luminaire via Quick Connect Receptacle
- Compatible with Casambi Wireless Mesh Systems
- Features High End Trim Adjustment, Zoning & Continuous Dimming
- Sensor/Control Output (Active High) for Relay/Load Control
- Powered by 12 to 24 VDC
- IP65 Rated for Outdoor or Indoor Applications
- Quick Connector For Easy Installation
- ioXt Alliance Cybersecurity Certification



For Indoor or Outdoor use



Applications

The PSC-ZKV-WCM-100-BLE-CB/EXA is a single channel wireless fixture controller with a long range antenna. The controller features an active high output for relay or load control.

The controller is IP65 rated for exterior use and suitable for a variety of indoor and outdoor applications in temperatures ranging from -22° to 158°F (-30° to 70° C).

This device is controlled wirelessly via Casambi Mesh technology allowing for wireless dimming of LED lighting. The compact size allows for seamless integration to the fixture.

Accessories

Power Pack: The PSC-ZKV-WCM-100-BLE-CB/EXA operates on 12 to 24 VDC input. See the McWong PacWave™ Power Pack products for low voltage power supply options.

Alternatively, the controller can also operate with a driver that has auxiliary output (12 to 24VDC).

Operation

Casambi Wireless Mesh Controls:

The controller connects to a wireless mesh network via a mobile app, available as iOS or Android, to allow initial setup and subsequent parameters adjustments.

User Interface: Using the mobile app, features include: setup, control real time feedback, and scheduling without a gateway or internet access.

Single Channel: The controller outputs a 0-10V dimming channel for driver control.

Relay Control: The controller outputs a 10-22VDC active high control signal to control a relay or other load circuitry.

Quick Connector: The controller mounts to a receptacle (McWong part# PSC-ZKV-R1L – sold separately). One receptacle is required for mounting each controller.

See the McWong Casambi Commissioning User Manual for more information.

Summary

Product Type:
Single Channel Wireless Fixture Controller with Long Range Antenna

Input Voltage | Current Consumption:
12 to 24 VDC | 100 mA

0-10V Dimming Output: 30 mA

Load Control Output: 10 to 22 VDC 30mA
Source Control Signal (Active High)

Mounting: Mounts to McWong PSC-ZKV-R1L receptacle, sold separately

Max Bluetooth Range¹:
950 feet (290 meters)

Operating Temperature:
-22°F to 158°F (-30°C to 70°C)

Storage Temperature:
-40°F to 185°F (-40°C to 85°C)

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

Color: Clear/Transparent Housing

Warranty: 5 years

Note:

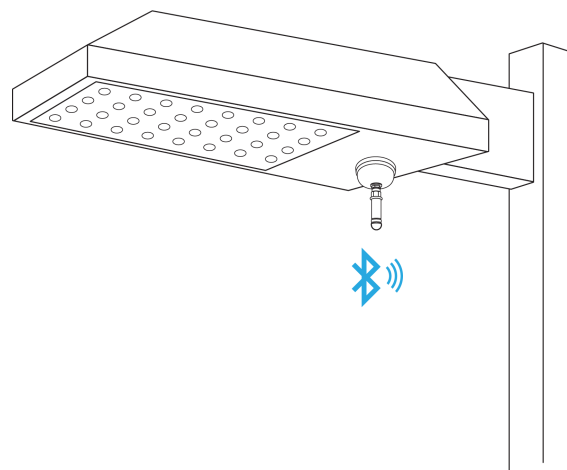
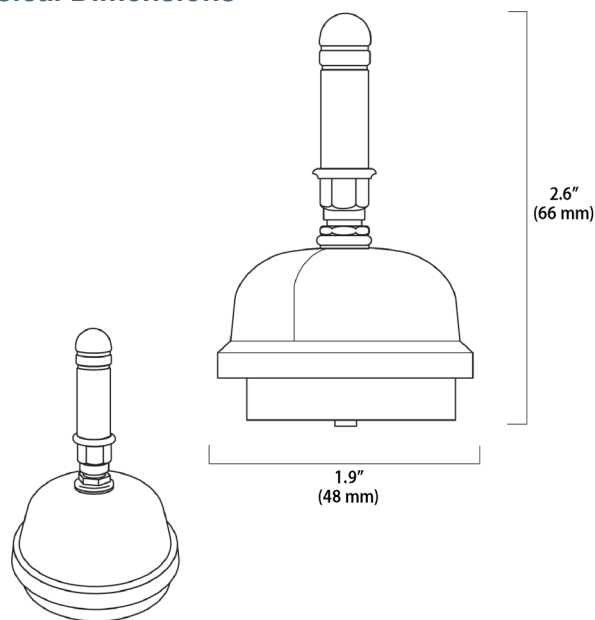
1. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for Bluetooth range accuracy.

Project

Location/Type

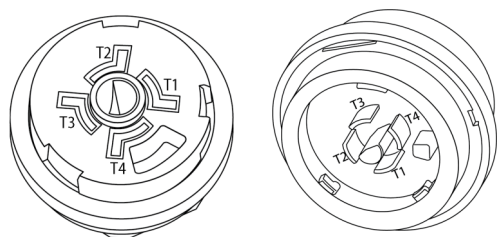


Physical Dimensions



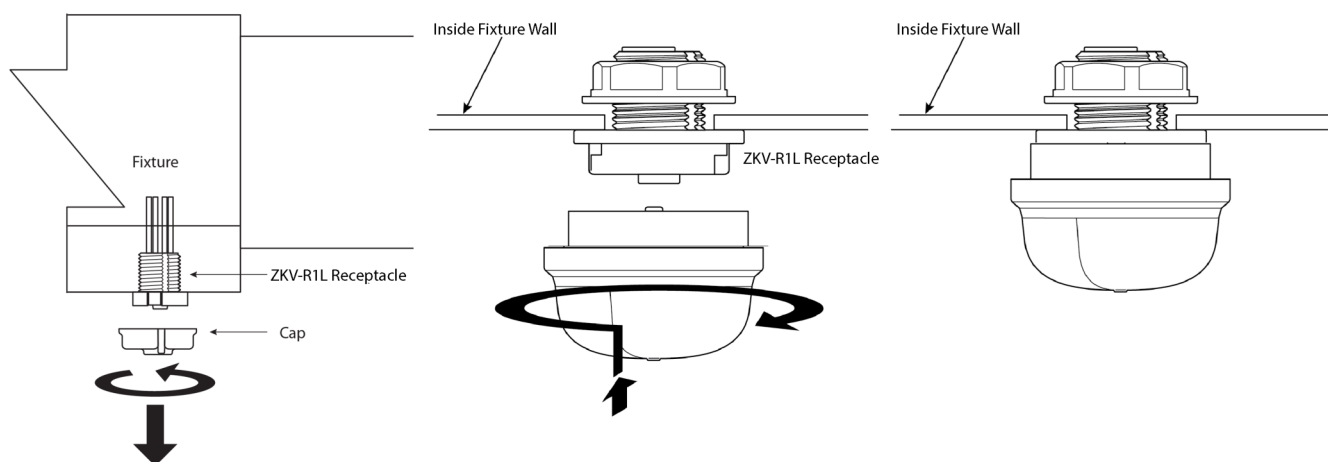
Drawings are not to scale

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)
T3	0-10VDC+ Control Signal from Controller	Purple (Violet) Wire (Receptacle)
T4	10-22VDC 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.

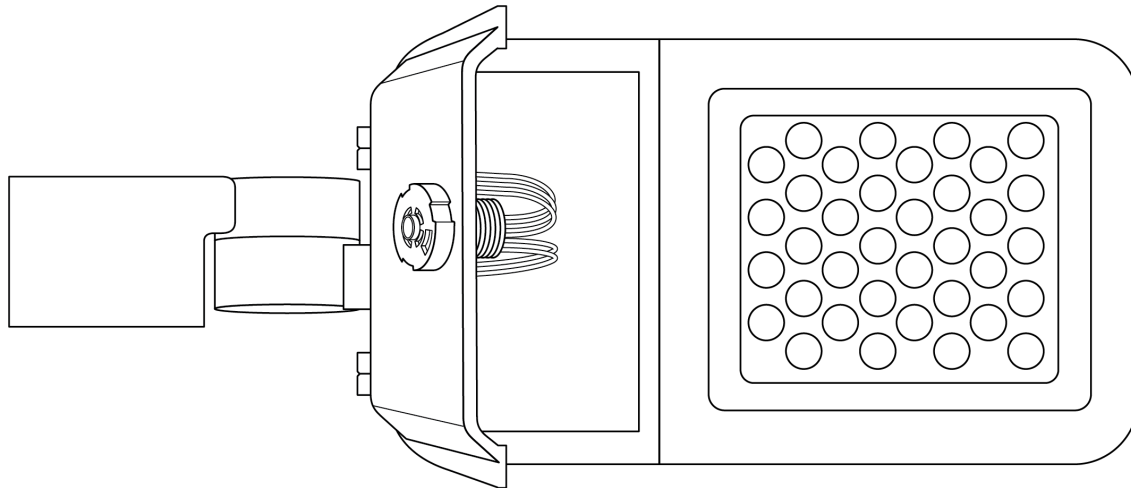
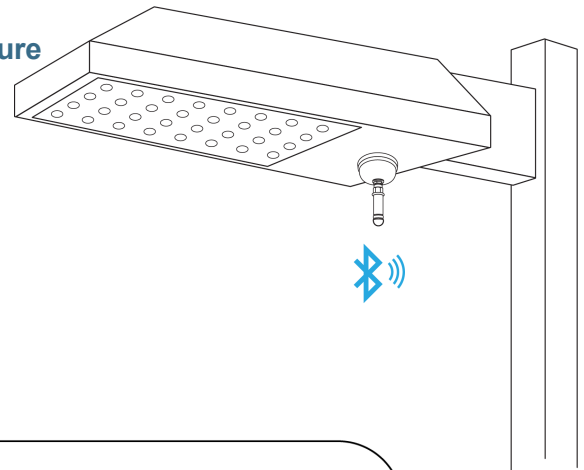


To install the ZKV controller, first remove the protective cap on the ZKV-1RL receptacle by pushing up and rotating counterclockwise.

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

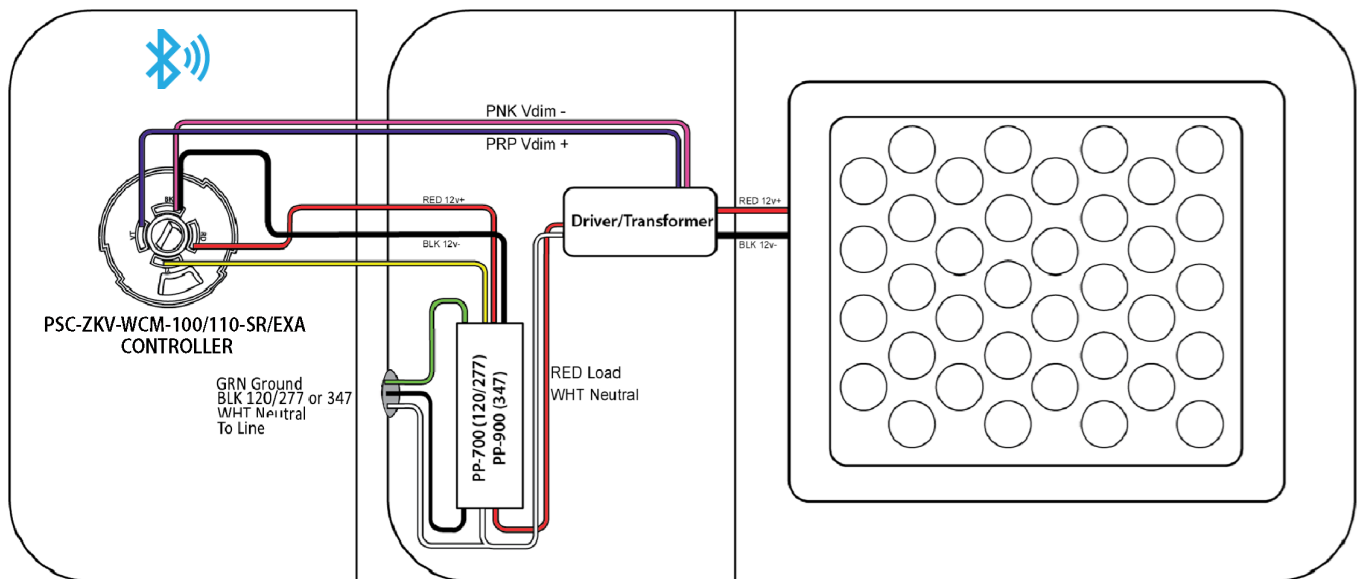


Example Application: Controller Installed with Power Pack (McWong PSC-AC-PP-700 or PSC-AC-PP-900:) - Single Fixture



ZK-R1L receptacle on outside of fixture

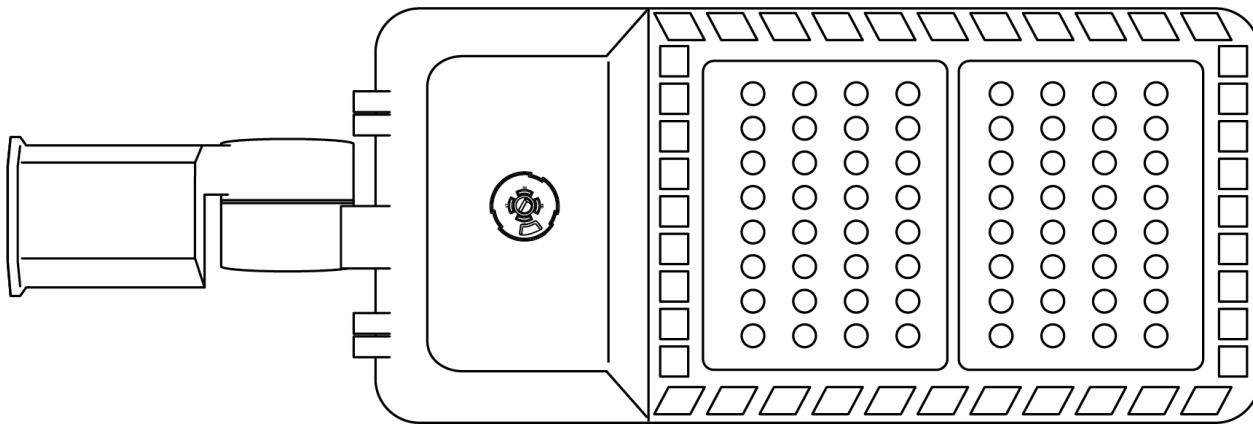
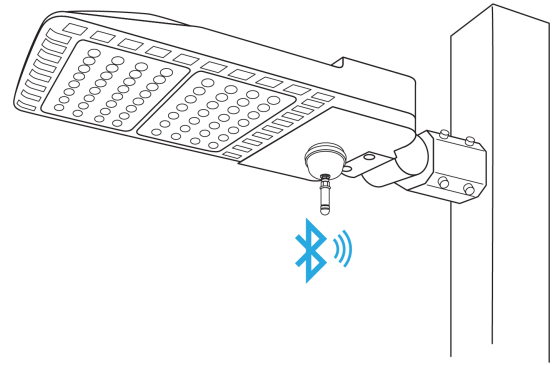
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ZKV-R1L receptacle with PP-700 power pack, and LED dimmable driver

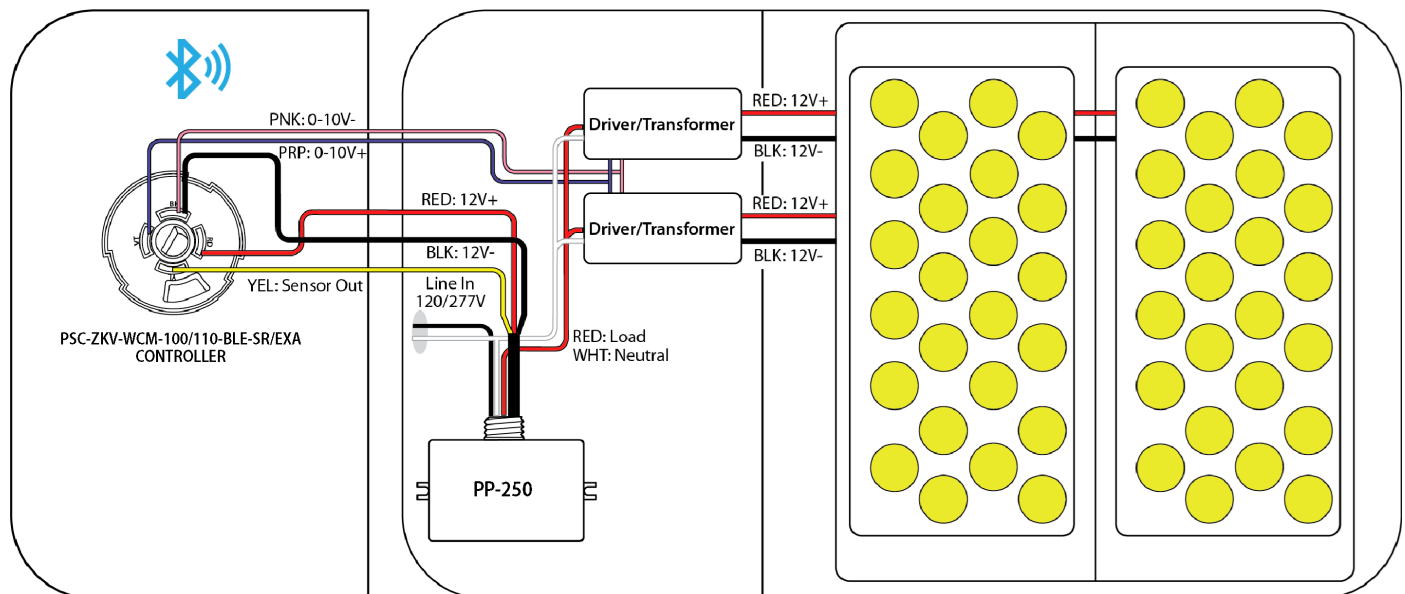


Example Application: Controller Installed With Power Pack (McWong PSC-AC-PP-250) Single Fixture With Multiple Drivers



ZKV-R1L Receptacle on outside of fixture

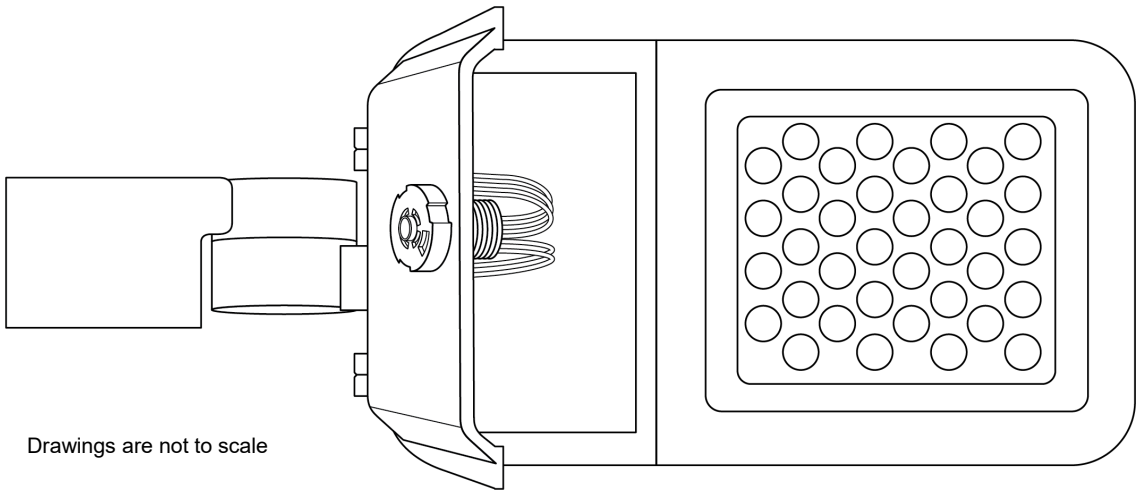
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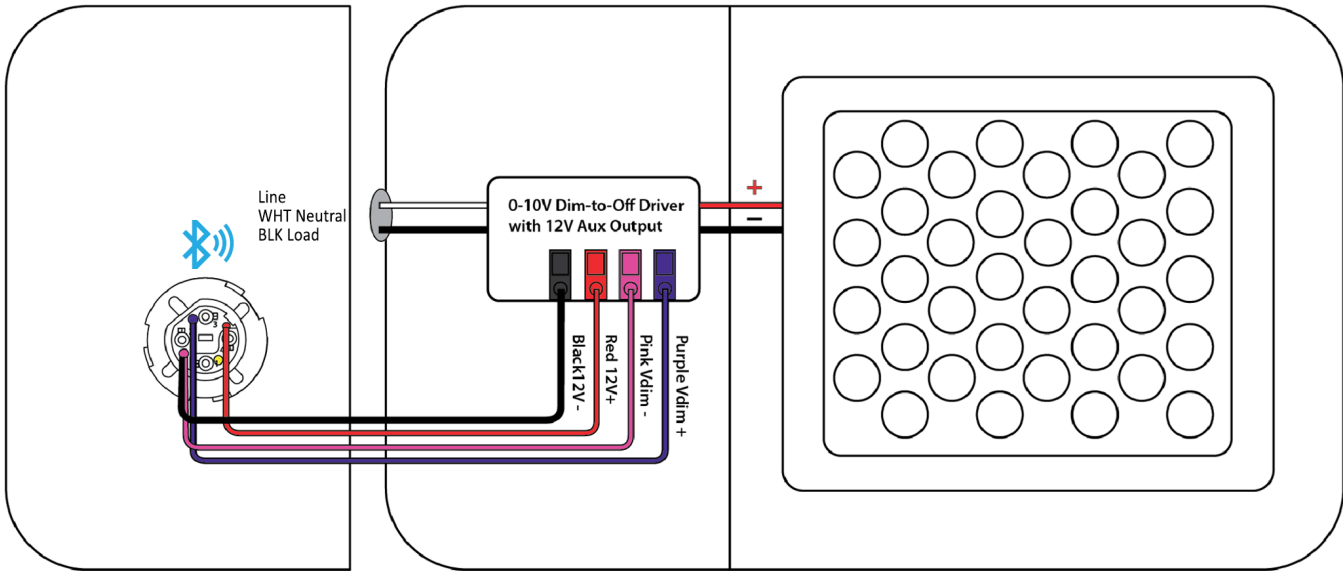
ZKV-R1L Receptacle with PP-250 power pack, and LED dimmable driver
(open wiring compartment)



Example Application: Controller Installed with 0-10V Dim-To-Off Driver and 12VDC Auxiliary Output



ZKV-R1L Receptacle on outside of fixture



How To Order

Model No.	Description	Input Voltage	Output
PSC-ZKV-WCM-100-BLE-CB/EXA	Fixture Controller With 0-10V Dimming, Long Range Antenna, Casambi Mesh, Clear Housing	12-24VDC	Load Control 0-10V Dimming
PSC-ZKV-R1L	Receptacle for Fixture Controller	12-24VDC	

For Line to Low Voltage Power Supply/Controller, please see Power Pack data sheets
Design and specifications are subject to change without notice.