

TruBlu Mesh Passive Infrared Outdoor Sensor-Controller

Overview

- 1-Channel 0-10VDC Dimming
- Mounts On Fixture
- Bluetooth® SIG Mesh
- PIR Sensor Mounting Height Up To 40 ft (12.2 m)
- Photocell (-110 version)
- High-End Trim, Zoning, **Continuous Dimming**
- Powered by12-24VDC

- Sensor Output (active high)
- IP-65 Rated for Outdoor or Indoor **Applications**
 - Quick Connector For Easy Installation



For Indoor or Outdoor Use Receptacle Sold Separately



Applications

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

The PSC-ZKV-I-100-BLE-SR and PSC-ZKV-I-110-BLE-SR use PIR motion detection architecture and passive infrared (PIR) technology for improved detection coverage.

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

Sensor Lens: The PSC-ZKV-I-100-BLE-SR and the PSC-ZKV-I-110-BLE-SR require a High Bay or Low Bay lens option (sold separately).

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: Outputs 10-22VDC active high control signal to control relays or other control circuitry.

Photosensor (PSC-ZKV-I-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 TruBlu[™] Commissioning User Manual for more information.

Summary

Product Type: 1-Channel PIR Sensor and Controller (-110-model includes photosensor) Input Voltage | Current Consumption: 12-24 VDC | 50 mA max

0-10VDC Output: 30 mA

Mounting Heights: High Bay 20-40ft (6.1-12-2m) Low Bay 8-30ft (2.4-9.1m)

Max Sensor Range: High Bay 80ft (24.4m) diameter Low Bay 60ft (18.3m) diameter

Load Control Output-Active High Vin-2.5 V 30 mA

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

Max Bluetooth Range1: 100ft (30.4m)

Operating Temperature: -40° C to 70°C

Storage Temperature: -40° Č to 85°C

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

Color: Brown (standard default), Black or White

Warranty: 5 years

Note:

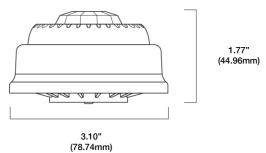
1. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

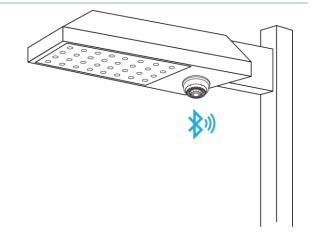
Project	
Location/Type	

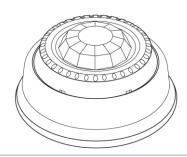




Physical Dimensions

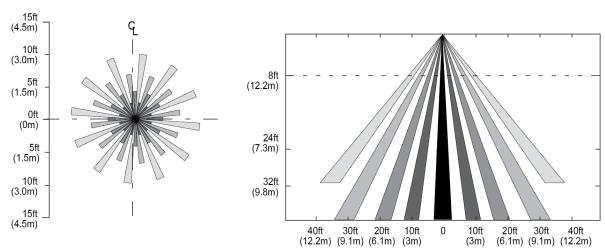




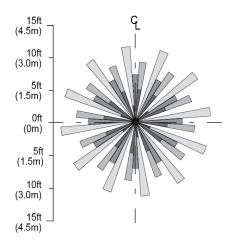


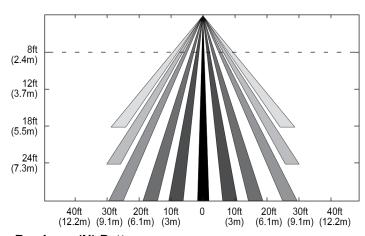
Drawing Are Not To Scale

Sensor Patterns



High Bay Lens (H) Pattern



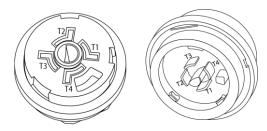


Low Bay Lens (N) Pattern



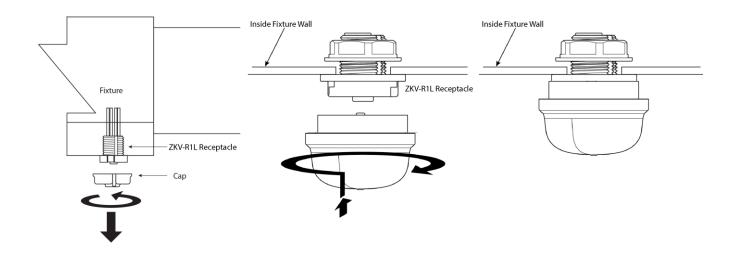


Installation Of Sensor-Controller



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

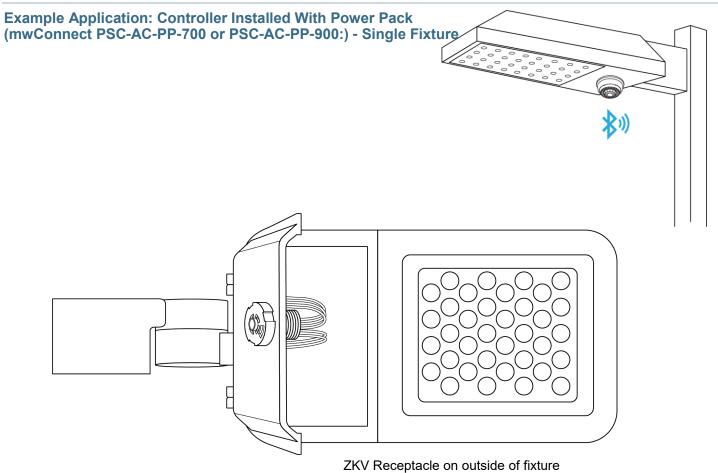
Tab/Slot	Designation	Notes	
T1	12-24VDC+ Power to Sensor-Controller	Red Wire (Receptacle)	
T2	12-24VDC- Power and 0-10VDC-/Common	Black Wire (Receptacle)	
Т3	0-10VDC+ Control Signal from Sensor-Controller	Purple (Violet) Wire (Receptacle)	
Т4	10-22VDC 30mA Load Control Output (Active High)	Yellow Wire (Receptacle)	



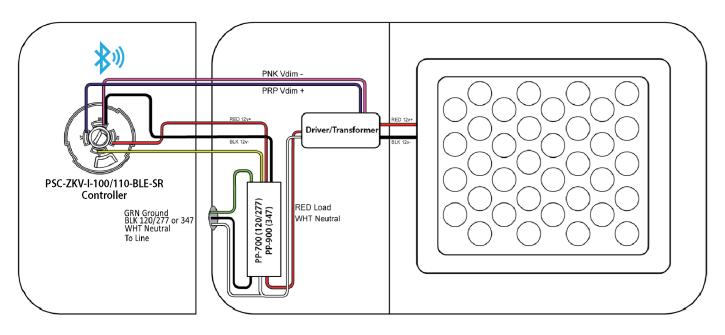
To install ZKV controller, first remove the protective cap on the ZKV-1RL receptacle by pushing up and rotating counterclockwise.

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





Drawings Are Not To Scale

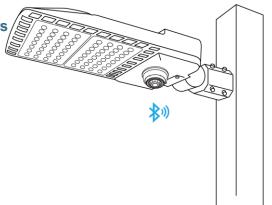


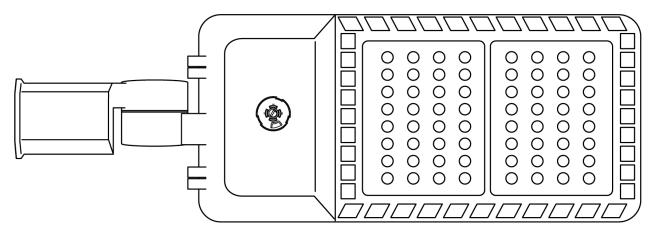
ZKV-I Receptacle with PP-700 power pack, and LED dimmable driver (open wiring compartment)





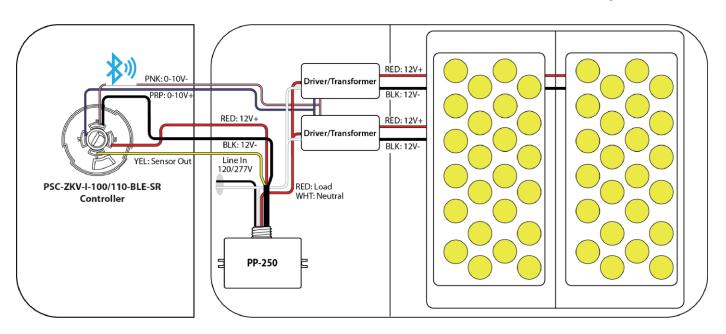
Example Application: Controller Installed With Power Pack (mwConnect PSC-AC-PP250) Single Fixture With Multiple Drivers





ZKV Receptacle on outside of fixture

Drawings Are Not To Scale



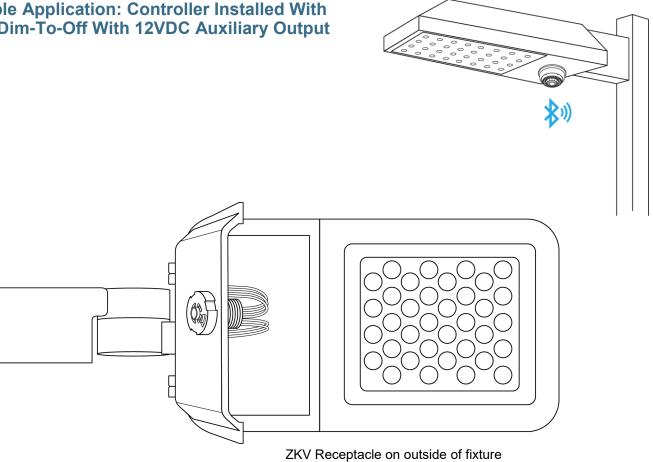
ZKV Receptacle with PP-250 power pack, and LED driver (open wiring compartment)



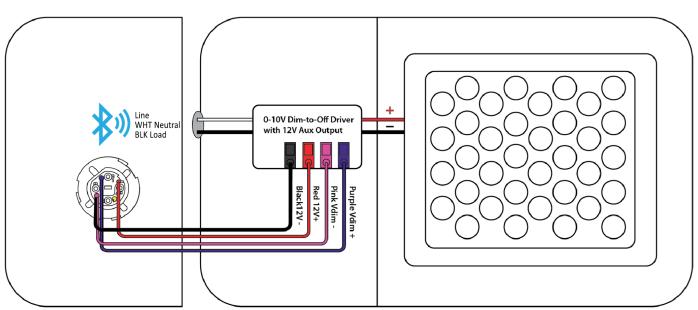




Example Application: Controller Installed With 0-10V Dim-To-Off With 12VDC Auxiliary Output



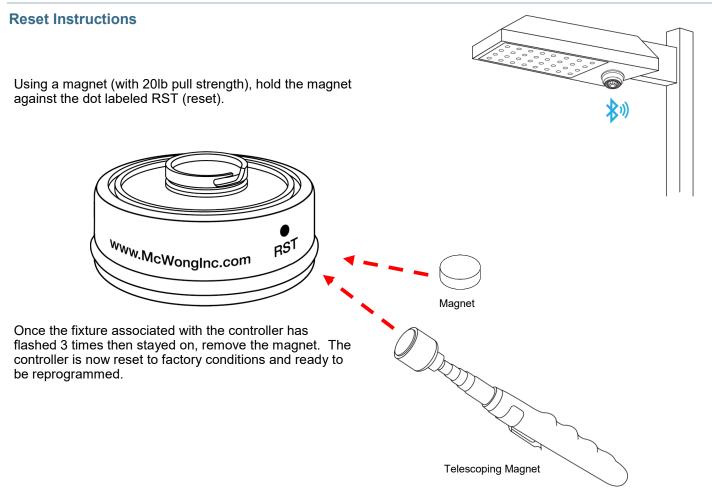
Drawings Are Not To Scale



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







Model Number Matrix

PSC	ZKV	1		BLE	SR	
PSC	ZKV	1	10N	BLE	SR	BN
	0-10V Outdoor Device	Passive Infrared (PIR) Sensor	Low Bay Lens (no Photo Sensor)	Wireless	TruBlu Mesh Compatible	Brown Finish
			10H			WT
			High Bay Lens (no Photo Sensor)			White Finish
			11N			ВК
			Photo Sensor & Low Bay Lens			Black Finish
			11H			
			Photo Sensor & High Bay Lens			

Example:

PSC-ZKV-I-11N-BLE-SR-BN

Design and specifications are subject to change without notice.

