

Casambi Mesh Passive Infrared Sensor-Controller

Overview

- Casambi Wireless Mesh
- 1-Channel 0-10VDC Dimming
- Mounts On Fixture
- PIR Sensor Mounting Height Up To 40 ft (12.2 m)
- Photocell
- High-End Trim, Zoning, Continuous Dimming
- Z10 0-10V Base
- Active high 3.6W
- IP-65 Rated for Indoor Applications
- Quick Connector For Easy Installation
- Powered by 12-24VDC

For Indoor Only
Receptacle Sold Separately



Applications

The PSC-ZKV-I-31H products are a series of 1-Channel Wireless Fixture Controllers and use PIR motion detection architecture and passive infrared (PIR) technology for improved detection coverage. The models have active high outputs for relay control.

The controllers are IP65 rated for interior use. They are suitable for a variety of indoor applications in temperatures ranging from -20° to 45°C. The models also have an integral photosensor.

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

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.

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

Relay Control: 3.6W active high

Photosensor: An integral photosensor provides ambient light level sensing for automatic control of daytime or nighttime designated scenarios.

Quick Connector: The controller mounts to a Z10 0-10V receptacle (mwConnect part# ZKV-R1L) . One receptacle is required for mounting each controller.

Summary

Product Type:
1-Channel PIR Sensor and Controller

Input Voltage | Current Consumption:
12-24 VDC | 20 mA max

0-10VDC Output: 12 mA

Mounting Heights:
High Bay 20-40ft (6.1-12-2m)

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

Active High:
3.6W

Fixture Mount: Quick-Connect receptacle, sold separately

Max Wireless Range¹:
100ft (30.4m)

Operating Temperature:
-20°C to 45°C

Storage Temperature:
-40°C to 85°C

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

Color: Black, White

Warranty: 5 years

Note:

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

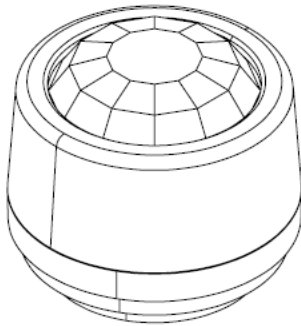
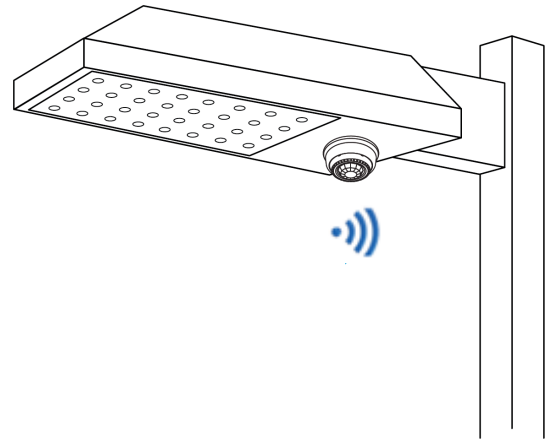
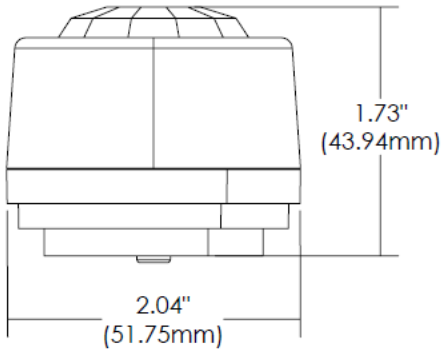
Accessories

The PSC-ZKV-I-31H sensor-controllers require 12-24 VDC power to operate. See the Wiring Table for designation of wiring tabs/slots.

Project

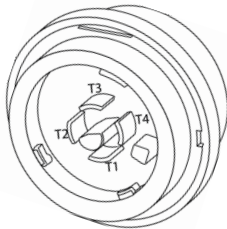
Location/Type

Physical Dimensions



Drawing Are Not To Scale

Product Wiring—Z10 0-10V Base (-10 & -11) Models



View of Back of Device



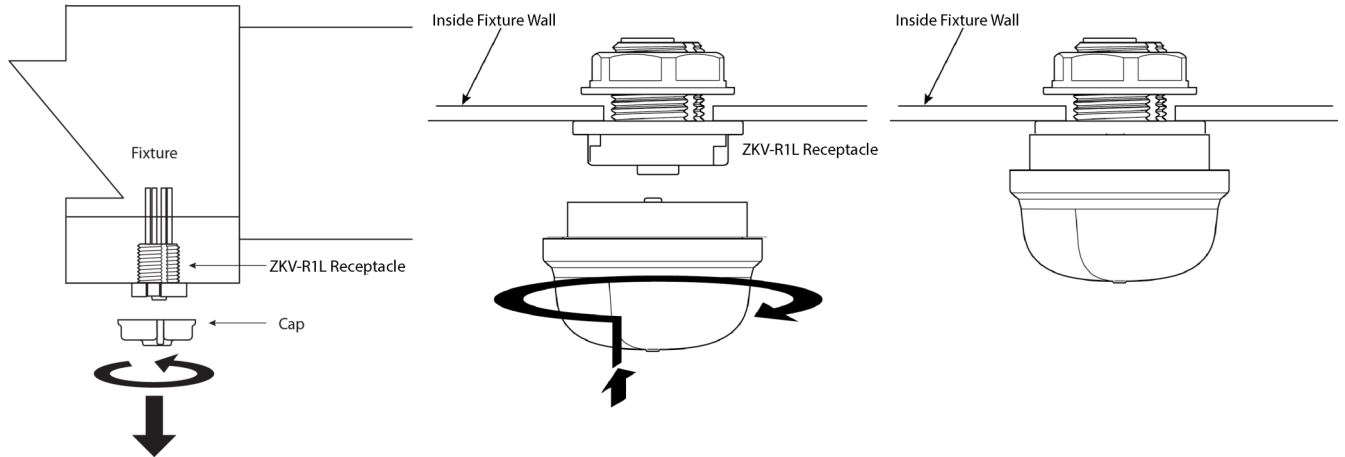
View of Z10 0-10V
Device Receptacle

Tab/Slot	Designation	Notes
T1	12-24VDC+ Power to Sensor-Controller	Red Wire (ZKV-R1L Receptacle)
T2	12-24VDC- Power and 0-10VDC-/Common	Black Wire (ZKV-R1L Receptacle)
T3	0-10VDC+ Control Signal from Sensor-Controller	Purple (Violet) Wire (ZKV-R1L Receptacle)
T4	3.6W Load Control (Active High)	Yellow Wire (ZKV-R1L Receptacle)

For Wiring Diagrams featuring the PSC-ZKV product series, visit the following link:

<http://mwconnect.us/wiring/PSC-ZKV>

Installation Of Sensor-Controller

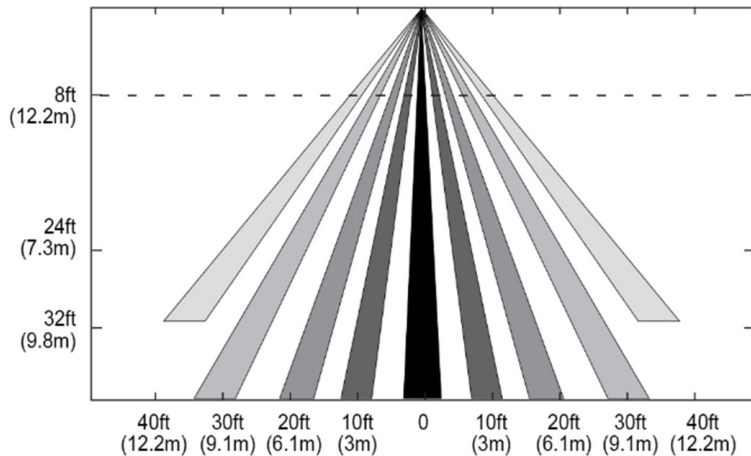
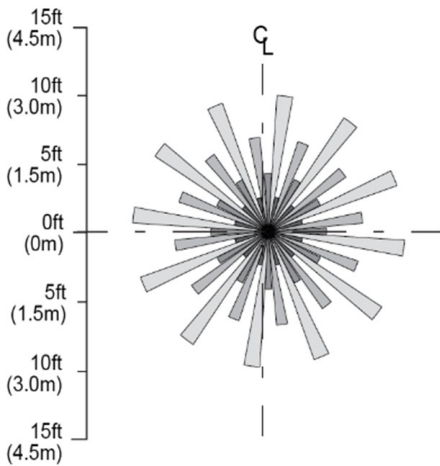


To install a ZKV device, first remove the protective cap on the ZKV-1RL by pushing up and rotating counterclockwise.

To install ZKV devices insert, push in and rotate clockwise to lock. No tools are required. Luminaires can be easily and quickly upgraded.

The receptacle for ZKV devices is typically installed by luminaire manufacturer and is shipped to job site with a protective cap.

Sensor Patterns



High Bay Lens (H) Pattern

Model Number Matrix

PSC	ZKV	I	31	H	BLE	CB	__
PSC	ZKV	I	31	H	BLE	CB	BK
	0-10V Indoor Device	Passive Infrared (PIR) Sensor	Z10 0-10V Base Photo Sensor	High Bay Lens Pattern	Wireless	Casambi Mesh Compatible	Black Finish
							WT
							White Finish

Example:

PSC-ZKV-I-31H-BLE-CB-BK