

# TruBlu Mesh Compact 0-10V Connectorized Wireless Sensor-Controller

## Overview

- Single Channel Sensor-Controller with 0-10VDC Dimming Output
- Digital Passive Infrared (PIR) Sensor
- Mounts to 1/2" Knockout (Light Fixture or Enclosure)
- Compatible with Bluetooth® SIG Mesh Systems
- Sensor/Control Output (Active High) for Relay/Load Control
- 360° Sensor Coverage Pattern
- Compact Design
- Powered by 12 to 24 VDC
- Features High and Low-End Trim Adjustment, Zoning & Continuous Dimming
- Energy Monitoring and Scheduling with a TruBlu™ Gateway



## Applications

The PSC-ZMV-I-11N-BLE-SR is a Single Channel Wireless Fixture Sensor-Controller with active high output for relay control. The device includes a Passive Infrared occupancy sensor and integral daylight sensor.

The controller mounts in a 1/2" knockout and secured by the included option clips or via the threaded body. The product includes a connector-based wiring harness to ease installation.

This device is controlled wirelessly via Bluetooth® Mesh technology allowing for wireless dimming of luminaires. The compact size ensures minimal installation in a luminaire or enclosure.

## Accessories

**Power Pack:** The PSC-ZMV-I-11N-BLE-SR operates on 12-24VDC input power and requires a separate mwConnect power pack. See mwConnect line of Power Packs and Power Supplies.

Alternatively, the unit can also operate with a driver that has an auxiliary power 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.

**Daylight Sensor:** Features an integral Photocell for daylight control integration.

See TruBlu™ Commissioning User Manual for more information.

Note:

1. The application/absolute range of the sensor is subject to variation because of different types of clothing, backgrounds, and ambient temperature. It is recommended to conduct testing for range accuracy.
2. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for Bluetooth range accuracy.

## Summary

Product Type:  
Wireless PIR Sensor and Controller

Input Voltage | Current Consumption:  
12 to 24 VDC | 50 mA

0-10VDC Output: 30mA Current Sinking

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

Mounting: Fixture or Enclosure (1/2"  
Knockout)

Mounting Height: 8 to 15ft (2.4 to 4.6m)

Max Sensor Range<sup>1</sup>:  
15ft (4.6m) Radius

Max Bluetooth Range<sup>2</sup>:  
100ft (30.4m)

Operating Temperature:  
-40°F to 158°F (-40°C to 70°C)

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

Relative Humidity:  
90-95% non-condensing

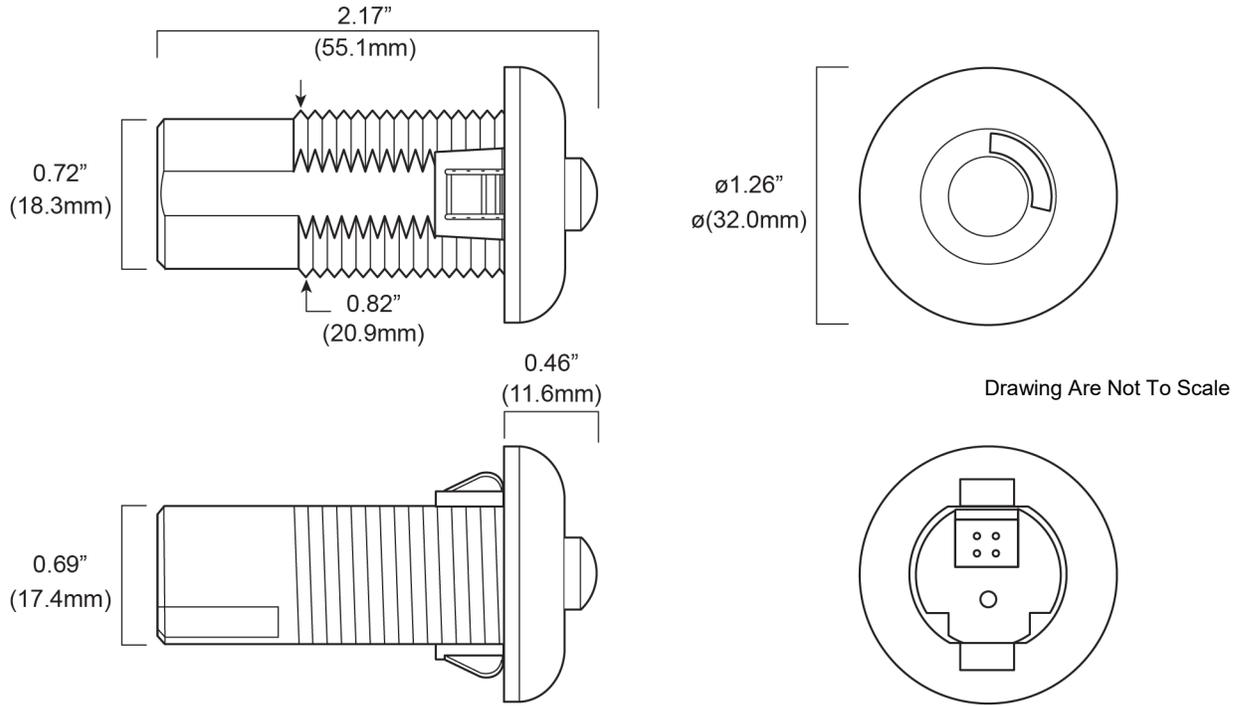
Color: White

Warranty: 5 years

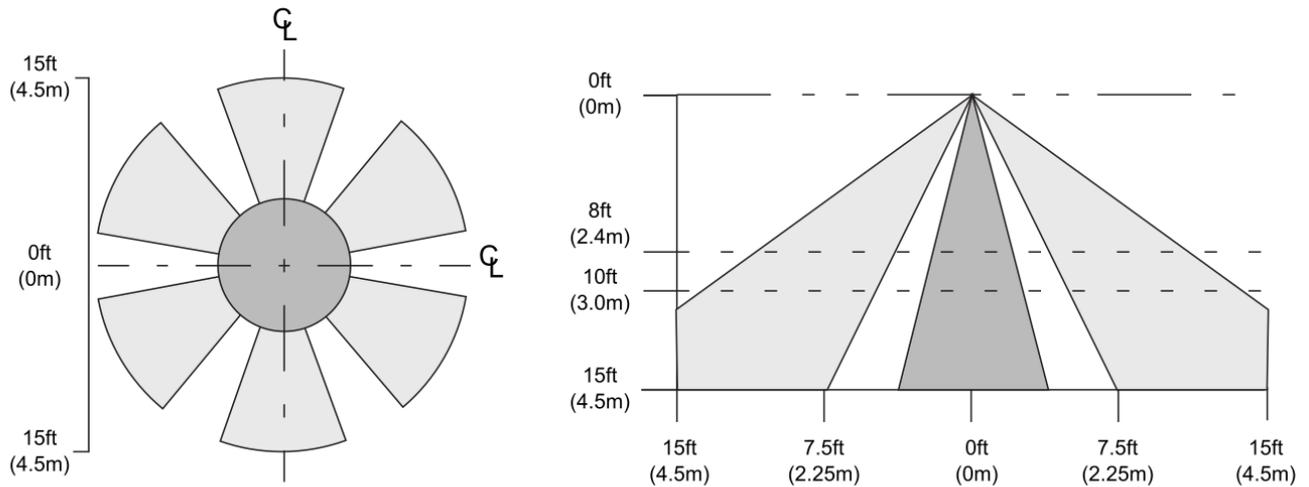
Project

Location/Type

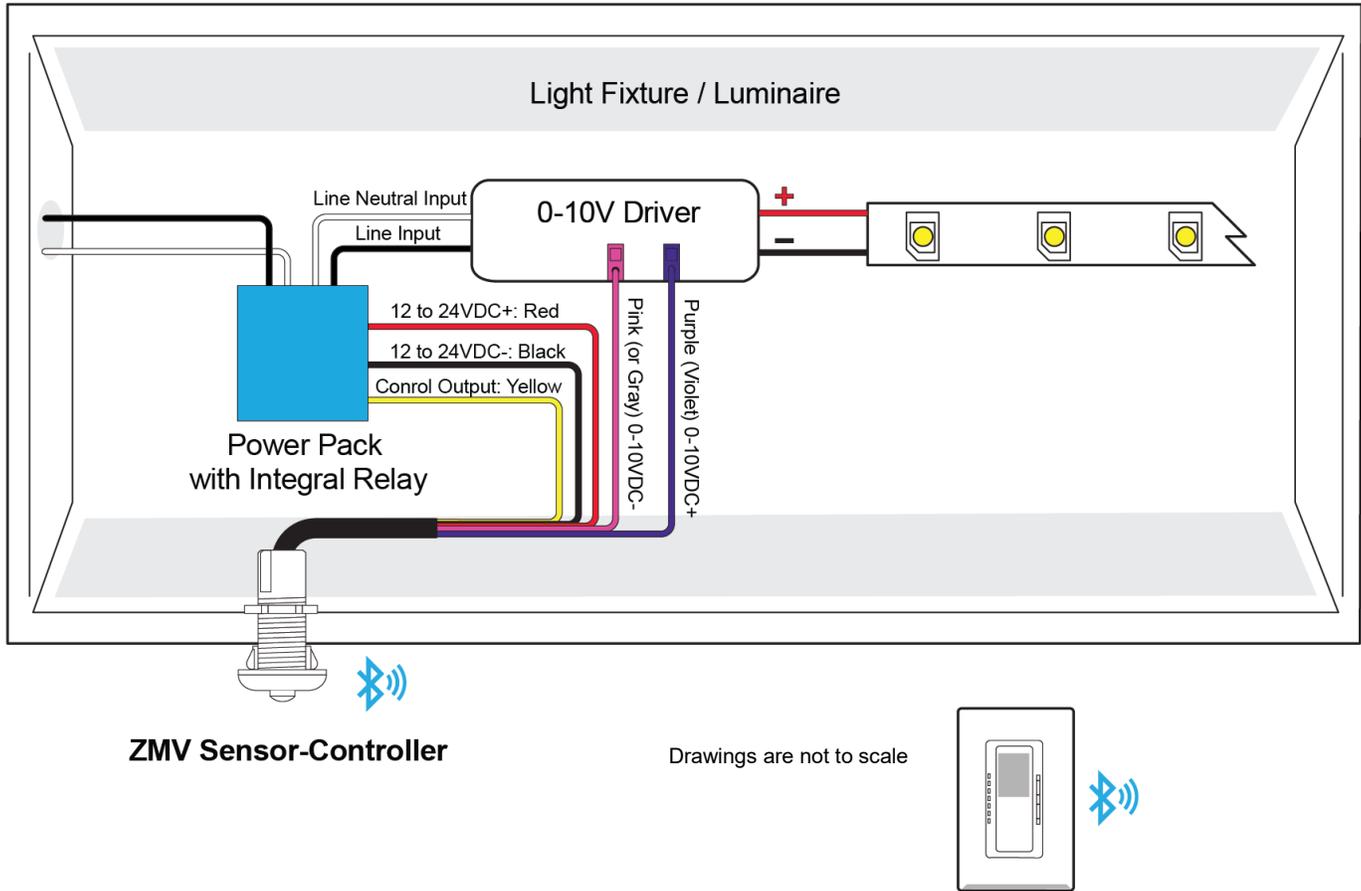
**Physical Dimensions**



**PIR Sensor Pattern**

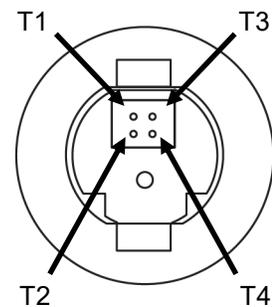


**Example Application: Sensor-Controller Installed with 0-10V Driver and 12 to 24VDC Power Pack**



**Sensor-Controller Wiring**

Tab/Slot	Designation	Notes
T1	12-24VDC+ Power to Sensor-Controller	Red Wire (22AWG)
T2	12-24VDC- Power Common & 0-10VDC- Dimming Common	Black Wire (22AWG)
T3	0-10VDC+ Dimming Output	Purple/Violet Wire (22AWG)
T4	10-22VDC Load Control Output (Active High)	Yellow Wire (22AWG)



**How To Order**

Model No.	Description	Input Voltage	Output
PSC-ZMV-I-11N-BLE-SR	Low Bay PIR Sensor-Controller with 0-10V Dimming and Daylight Sensor, TruBlu™ Mesh Technology White Finish	12-24VDC	Control High 0-10V Dimming

Design and specifications are subject to change without notice.