

# Casambi Wireless Fixture Mounted PIR Sensor + Light Sensor + 0-10V Dimming



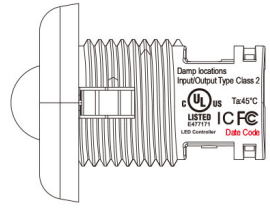
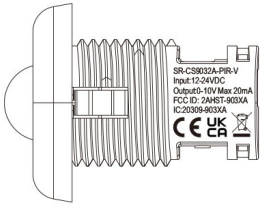
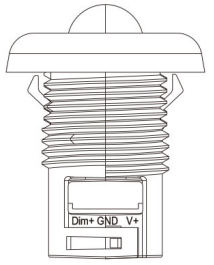
**Important:** Read All Instructions Prior to Installation

## Function introduction



Daylight sensor: detects ambient light.

PIR sensor indicator: indicates when motion detected.



## Product Description

The fixture-integrated sensor combines presence sensing, daylight harvesting, 0-10V dimming and Casambi radio technology into a small package that fits into various luminaires. When used with 0-10V dim-to-off LED drivers, it enables any lighting manufacturer to deliver wirelessly-controllable and sensor-equipped fixtures with minimal engineering effort. The sensor-equipped luminaires just need to be connected to mains power. The result is increased occupant comfort and significant energy savings that meet the most demanding building energy codes.

## Casambi Technology Explained

The Casambi technology provides a mesh network where all the intelligence of the system is replicated in every node and, in such a way, creates a system with no single point of failure. In this kind of fully distributed architecture, any unit can go offline and catch up from others when they return back online.

## Wireless Features

- Control a large number of fixtures from any point
- Simple to use UI
- Wide range of functionality – Grouping Luminaires, different lighting situations for different occasions, colour temperature, daylight sensor, occupancy sensor and much more.

## Product Data

### Physical Information

Dimensions / Weight	See Dimensions / 12.3g (without locknut) / 21.3g (with locknut)
Mounting (Luminaire Hole)	1/2" trade size knockout (22.2-22.3mm)

Material / Color	ABS / White
Connectors / Wire Gauge	3 pin connectors / 24-18 AWG (0.2-0.75 mm <sup>2</sup> )
Strip Length	0.28-0.35 in. / 7-9 mm

## Electrical Information

Input Voltage	12/24 VDC
Current Consumption	< 30mA (when dimming method = sink)
Dimming Control	Analog (0-10V)
Dimming Output	4mA (sink) / 20mA (source)
Status Indicators	Red (motion detection)

## Wireless Communication

Transceiver Frequency	2.4GHz ISM band
Radio Range	164 feet (50m) in open field
Radio Certification	FCC/IC, CE

## Lighting Control

Features	Continuous dimming , Individual/group addressing, Scene control, Task tuning (0-100%) Autonomous sensor-based control, Scheduler control
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## Sensing

Occupancy Sensing Type	PIR sensor
Lux Detection Range	0-1000 Lux
Mounting Height	Recommended height: 8ft (2.5m)
Detection Angle	130°
Detection Range	Up to 5 meters @ 2.5m installation height

## Environment

Operating Temperature Range	32°F to 104°F / 0°C to 40°C (indoor use only)
Operating Humidity	0-95% (non condensing)
Safety Certification	cULus Listed, CE

## Key Features

- PIR motion detection
- Daylight harvesting
- Works with 0-10V dim-to-off LED drivers
- Autonomous sensor-based control
- Fixture mount installation
- Can be use for indoor applications

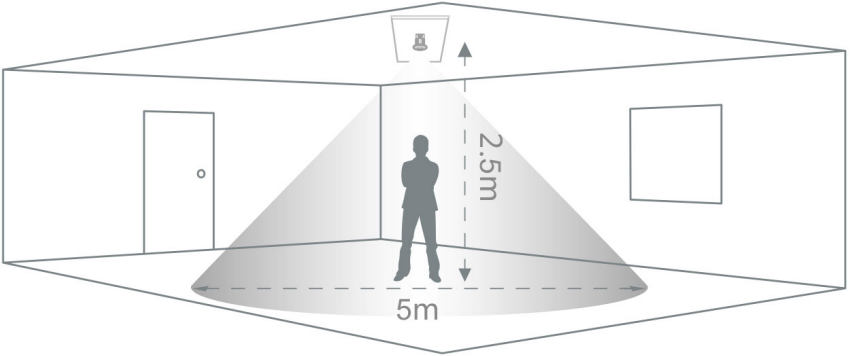
## Applications

- Residences
- Offices
- Meeting rooms
- Corridors

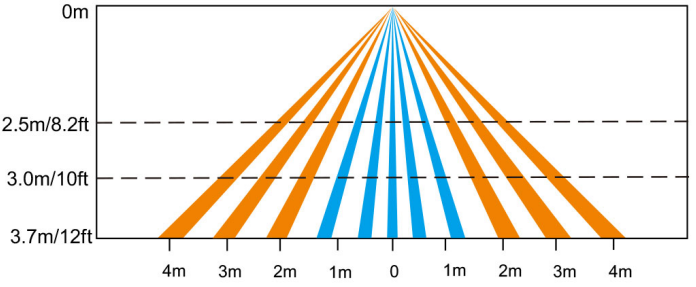
## Benefits

- Cost-effective solution for energy savings
- Energy code compliance
- Robust mesh network

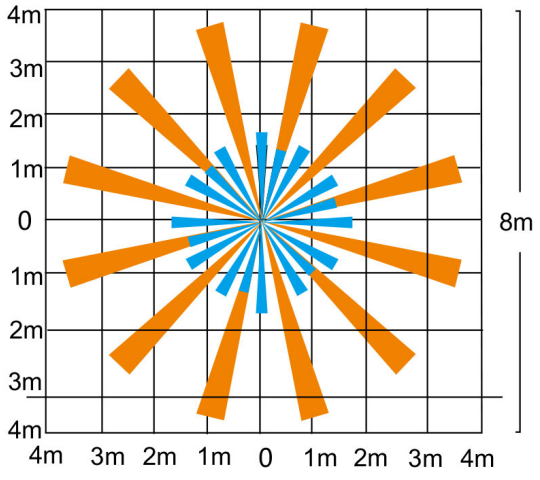
### Detection Pattern



### Coverage Side View



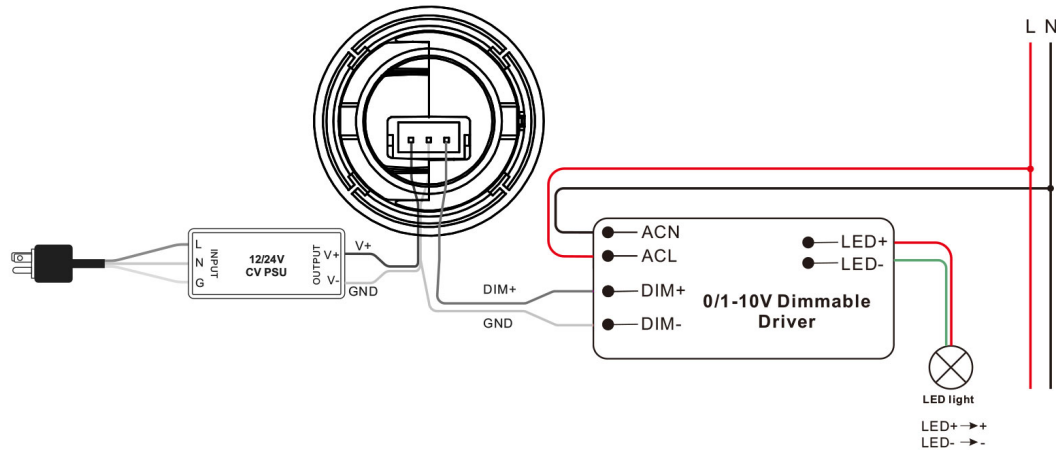
### Coverage Top View



The detection area for movement sensor can be roughly divided into two parts:

- Slow movement (person moving < 1.0'/s or 0.3m/s)
- Quick movement (person moving > 1.3'/s or 0.4m/s)

### Wiring Diagram



### Product Dimension

