

LSE-CASAMBI-FM

Casambi Wireless Fixture Mounted

PIR Sensor + Light Sensor +

0-10V Dimming



Eigenschaften / Features

Der in die Leuchte integrierte Sensor kombiniert Anwesenheitssensorik, Tageslichtnutzung, 0-10-V-Dimmen und Casambi Technologie in einem kleinen Gehäuse, das in verschiedene Leuchten passt. In Verbindung mit 0-10V Dim-to-Off LED-Treibern ermöglicht er jedem Beleuchtungshersteller, mit minimalem technischen Aufwand drahtlos steuerbare und mit Sensoren ausgestattete Leuchten anzubieten.

Die mit Sensoren ausgestatteten Leuchten müssen lediglich an das Stromnetz angeschlossen werden. Das Ergebnis ist erhöhter Komfort für die Nutzer und erhebliche Energieeinsparungen, die die anspruchsvollsten Energievorschriften für Gebäude erfüllen.

PIR-Bewegungserkennung

Tageslichtnutzung

Funktioniert mit 0-10V Dim-to-Off-LED-Treibern

Autonome sensorgestützte Steuerung

Installation in der Halterung

Für Innenanwendungen

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 luminaire manufacturer to deliver wirelessly-controllable and sensor-equipped fixtures with minimal engineering effort.

The sensor-equipped luminaires just need to be connected to the main power. The result is increased occupant comfort and significant energy savings that meet the most demanding building energy codes.

PIR motion detection

Daylight harvesting

Works with 0-10V dim-to-off LED drivers

Autonomous sensor-based control

Fixture mount installation

For indoor applications

Technische Daten / Technical Data

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)
	Connectors / Wire Gauge	3 pin connectors / 24-18 AWG (0.2-0.75 mm ²)
Wireless Communication	Transceiver Frequency	2.4GHz ISM band
	Radio Range	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
Sensing	Occupancy Sensing Type	PIR sensor
	Lux Detection Range	0-1000 Lux
	Mounting Height	Recommendet Height 2.5m
	Detection Angle	130°
	Detection Range	Up to 5m @ 2.5m installation height
Enviroment	Operating Temperature Range	0°C to 40°C (indoor use only)
	Operating Humidity	0-95% (non condensing)
	Safety Certification	cULus Listed, CE

Funktion / Function

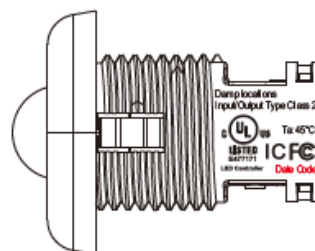
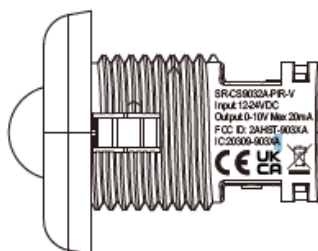
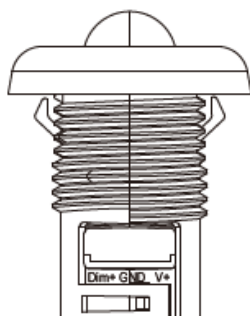


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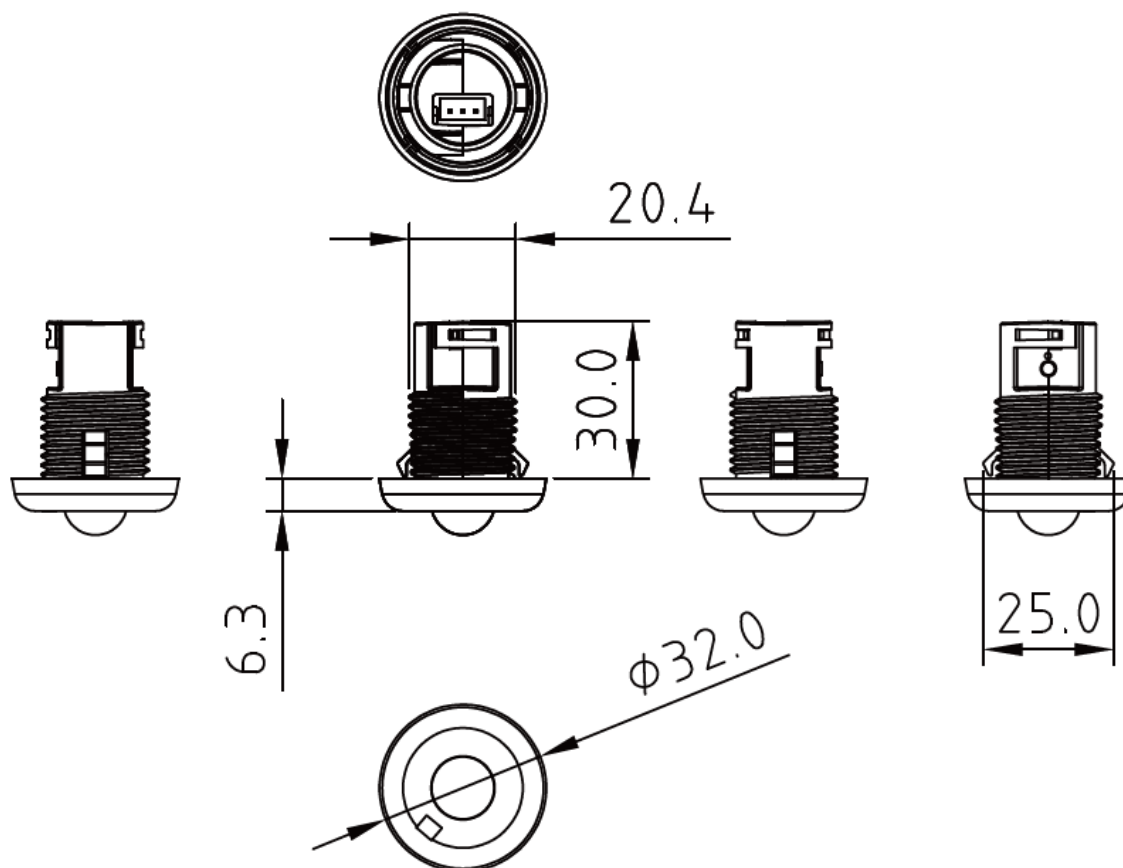


Daylight sensor: detects ambient light.

PIR sensor indicator: indicates when motion detected.



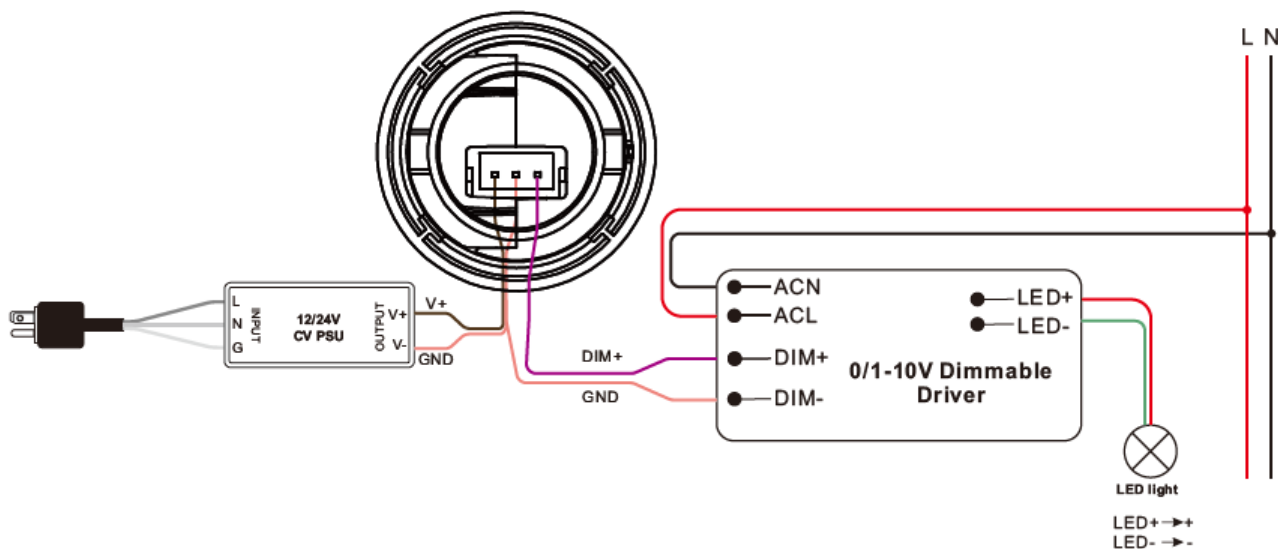
Abmessungen / Dimension



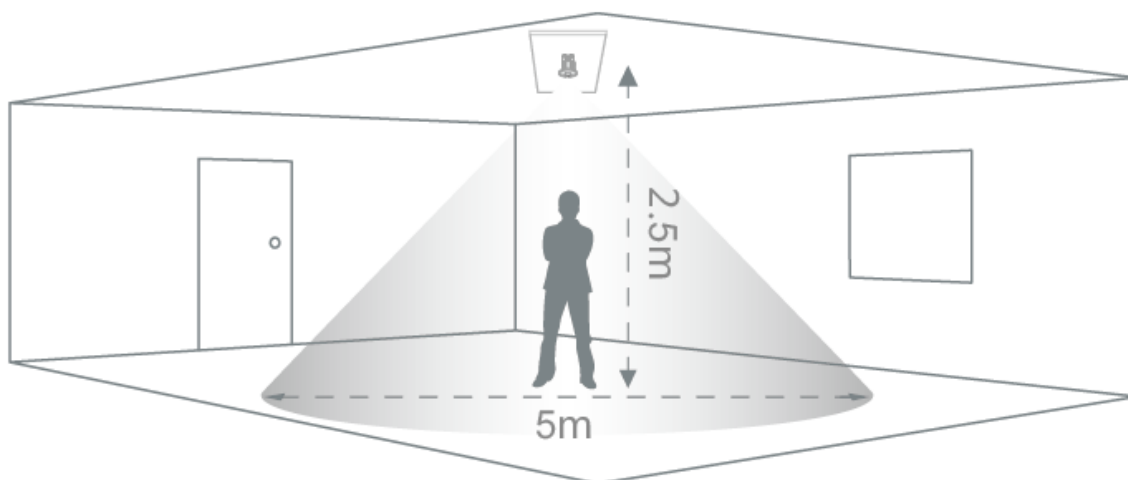
Anschlussschema / Wiring Diagram

Wire Code

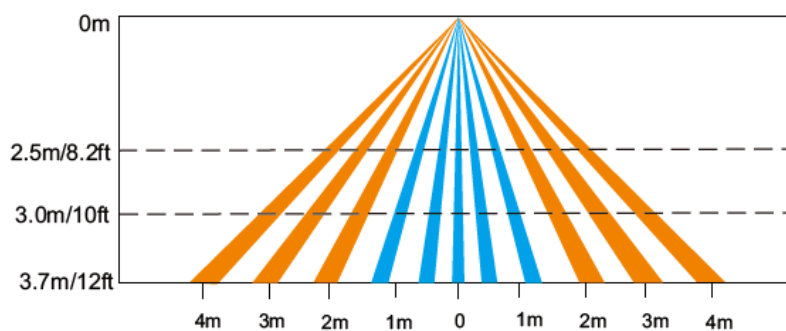
- Brown: 12/24VDC Power V+
- Pink: 12/24VDC Power GND & 0-10 Dim-
- Violet: 0-10V Dim+



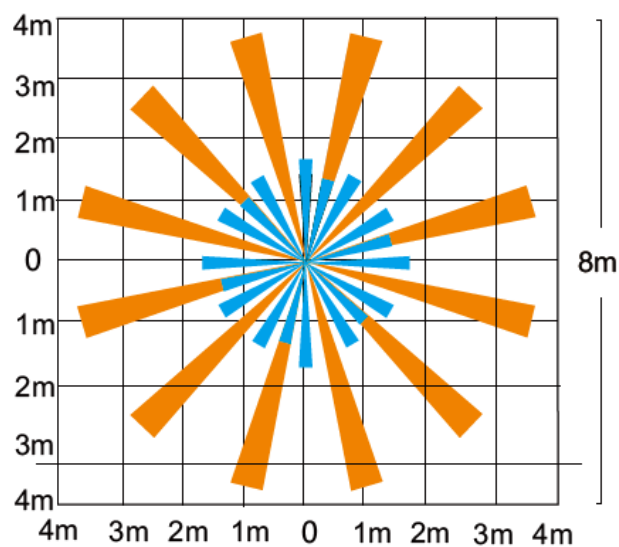
Detection Pattern



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 $0.4m/s$)