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

Bluetooth® | c(UL)us LISTED | CE | UK CA | IC FC FCC | RoHS COMPLIANT

Important: Read All Instructions Prior to Installation

Function introduction

Daylight sensor: detects ambient light.

Microwave sensor indicator: indicates when motion detected.

SR-CS9032A-MW-V
Input:12-24VDC
Output:0-10V Max 20mA
FCC ID: 2AHST-903XA
IC:20309-903XA

Damp locations
Input/Output Type Class 2
c(UL)us LISTED Ta:45°C
E477171
LED Controller   Date Code

Dim+ GND V+
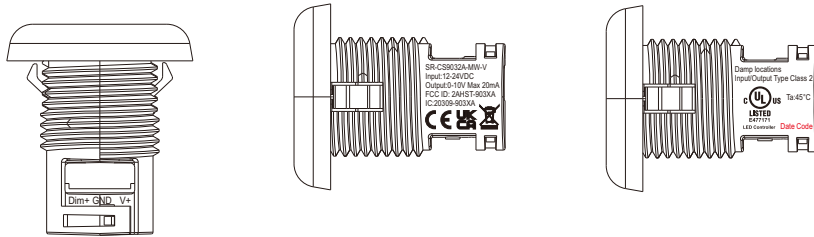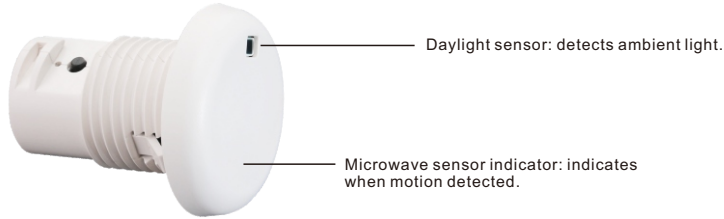
Product Description

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 mm2)
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 (occupancy detection)

Wireless Communication

Transceiver Frequency	2.4GHz ISM band
Radio Range	269 feet (82m) 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	Microwave sensor
Microwave High Frequency	5.8 GHz ±75 MHz ISM band
Lux Detection Range	0-1000 Lux
Mounting Height	Recommended height: 10ft (3m)
Detection Angle	150° (wall), 360° (ceiling)
Detection Range	Up to 8 meters @ 3m 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
• Microwave motion detection
• Daylight harvesting
• Task tuning
• Compact form factor
• Works with 0-10V dim-to-off LED drivers
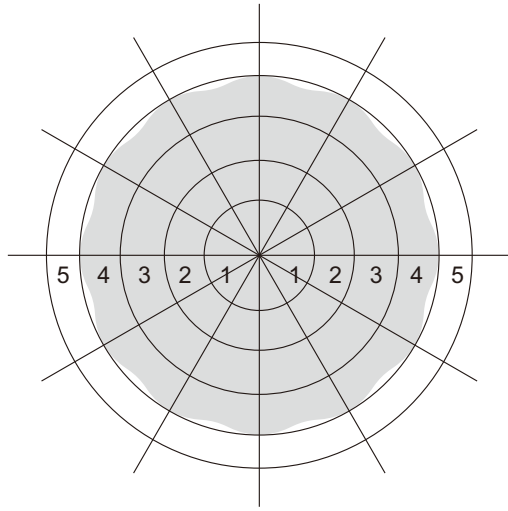• Autonomous sensor-based control

Benefits
• Cost-effective solution for energy savings
• Energy code compliance
• Fits into existing and new-design luminaires
• Robust mesh network

Applications
• Open offices
• Individual offices
• Conference rooms
• Classrooms
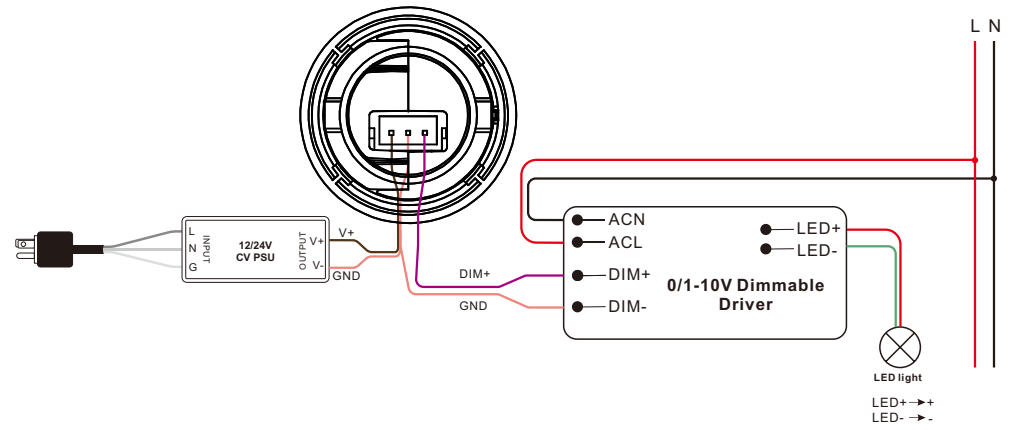• Retail stores
• Hospitals
• Lobbies

Ceiling Pattern (Unit: m) Installation Height: 3m

| 5 | 4 | 3 | 2 | 1 | | 1 | 2 | 3 | 4 | 5 |

Wiring Diagram

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

L N

INPUT L N G

12/24V CV PSU

OUTPUT V+ V-

V+
GND

DIM+
GND

ACN
ACL
DIM+
DIM-

0/1-10V Dimmable Driver

LED+
LED-

LED light

LED+ → +
LED- → -

Product Dimension

20.4

30.0

6.3

Φ32.0

25.0