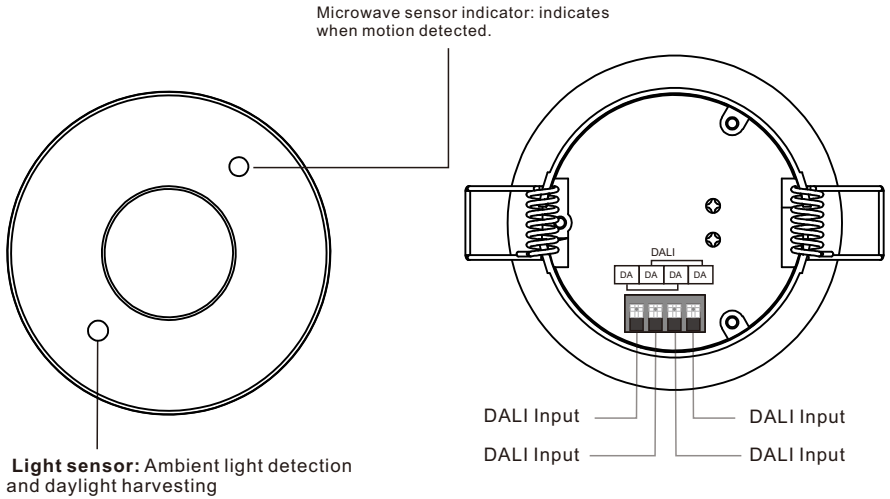
Casambi Wireless Ceiling Mounted Microwave Sensor + Light Sensor + DALI Dimming

SUNRICHER

CASAMBI

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Description

The ceiling mounted sensor combines presence sensing, daylight harvesting, DALI dimming and Casambi radio technology. The sensor can work with DALI LED drivers or luminaires, the 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
Cutting Hole	70-73mm
Material / Color	ABS / White
Wire Gauge	26-16 AWG (0.2-1.3 mm2)
Strip Length	0.28-0.35 in. / 7-9 mm

Electrical Information

Power Supply	DALI Bus
Current Consumption	< 20mA
Dimming Control	DALI
DALI Control Mode	Broadcast
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 DALI LED drivers
• Autonomous sensor-based control

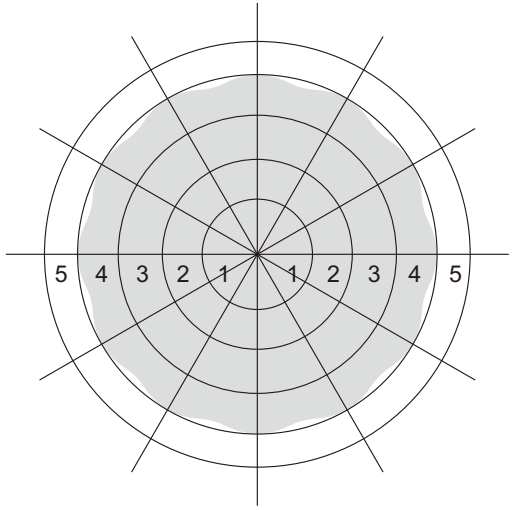
Benefits

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

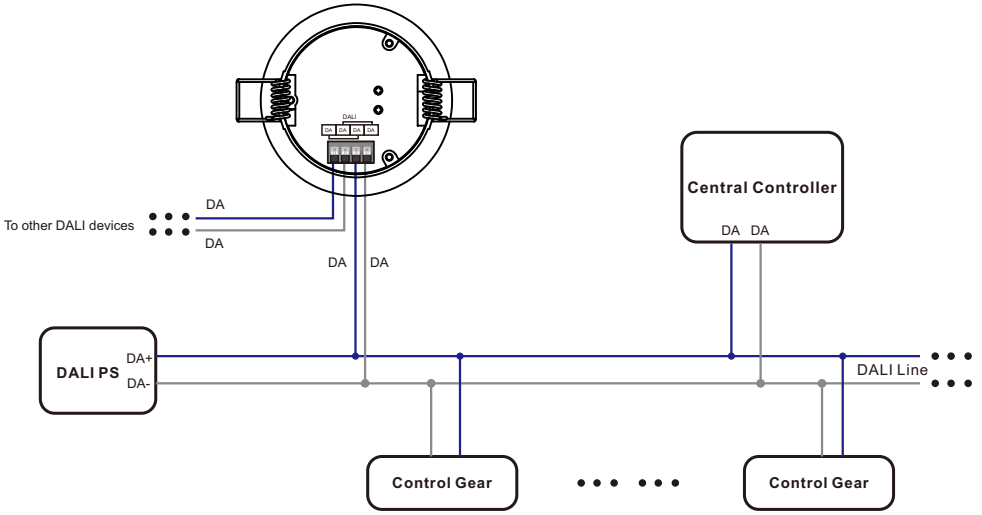
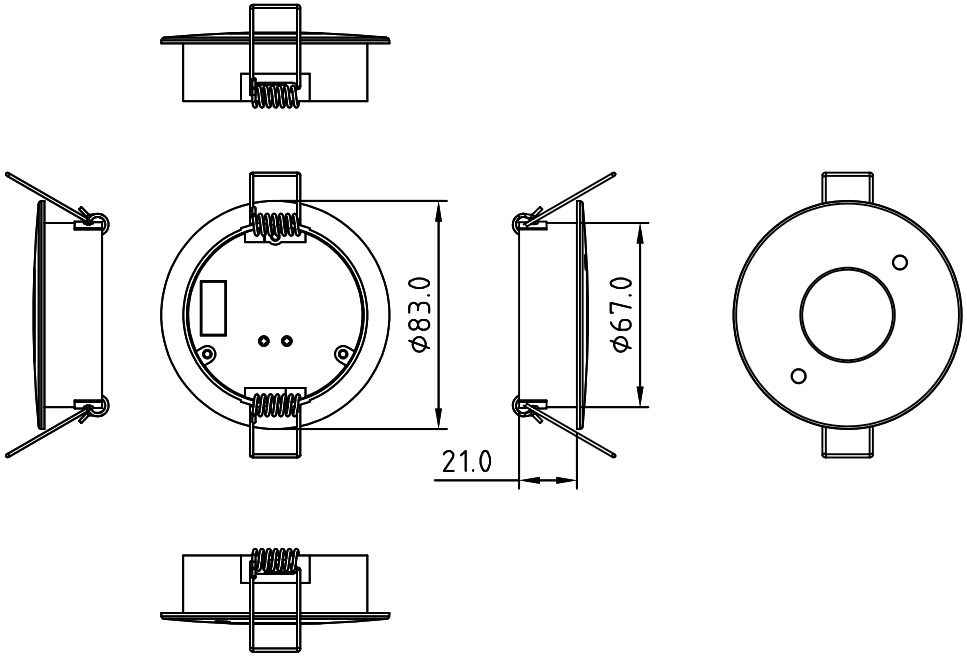
Applications

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

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



Wiring Diagram



Product Dimension