

Specification

Product Name: Network Sensor(Casambi)

Product Model: MC079D 99 ZB1

Version	Release/ change Date	Reason	Released by
V1.0	2024.04.17		Jiangzhong Guo

【Product Feature】

- 12Vdc Input, suitable for DC systems
or LED driver with 12V DC auxiliary power output.
- 0--10V dimming terminal, 3-step or
2-step is optional, detection area adjustable
- Mini size MW motion detection sensor
- Indoor maximum mounting height is 15m
- All sensor parameters can be set by Casambi App setting



Connected with **CASAMBI**

【Parameters】

Input	
Rated voltage	12 ± 1V DC
Working current	40 ± 5mA
Ripple voltage	<100mVp-p
Output	
Output signal	0 -10VDC dimming signal
Sensor parameters	
Working frequency	5.8GHz ±75MHz, ISM band
Transmitting power	3mW Max.
Sensor sensitivity	Casambi App setting
Daylight Priority	Casambi App setting
Stand-by dim level	Casambi App setting
Detection range (radius)	Ceiling installation 12m high: 0.3m/s; r ≥ 4m, 1m/s; r ≥ 3m;
Installation height	12m (15m Max)
Wireless parameters	
BLE Module	Casambi Bluetooth
Working frequency	2.402-2.480GHz
Transmitting power	+7dBm(max)
Transmission distance	25m(Visible distance)
Fixture ID	32022
Environment	
Working temperature	-35~60℃
Storage temperature	-40℃~80℃, humidity ≤85% (non-condensing)
Certification standards	
Certification	CE
Environmental requirements	Comply with RoHS 2.0 , Reach requirements
IP Rating	IP65
Other	
Wiring	Zhaga Book 18 interface

Installation requirements	built-in installation
Packaging requirements	Clapboard + Carton(K=A)
Net weight	41±3g
Lifetime	5 years warranty @Ta

【Function description】

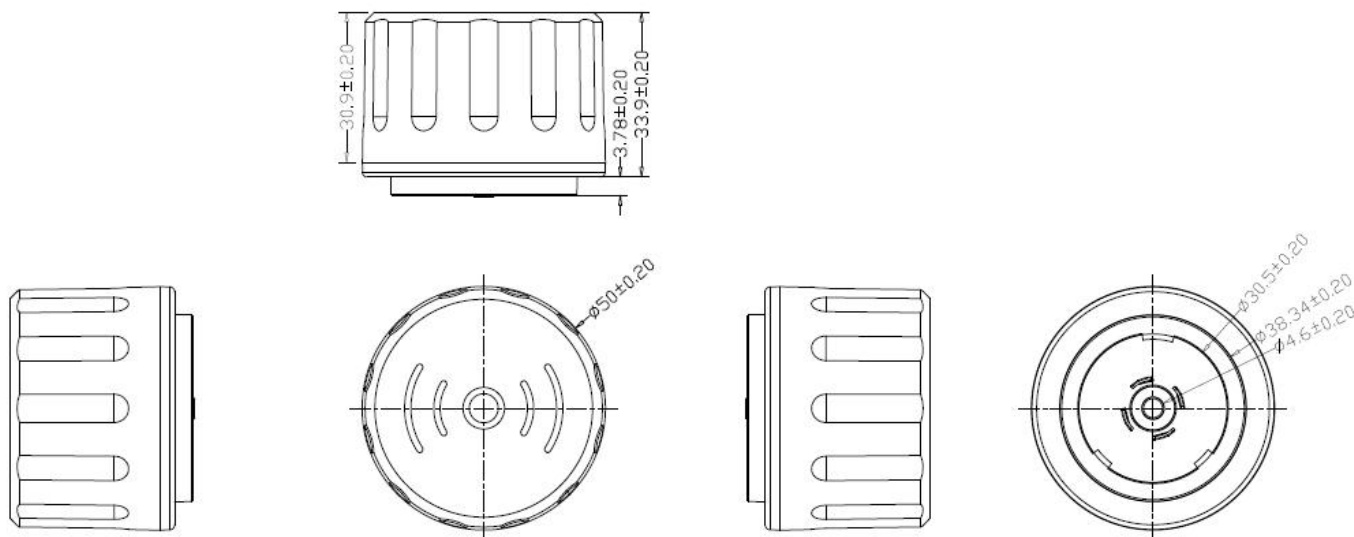
- ① ON-OFF function Casambi App setting
- ② 2-step dimming Casambi App setting
- ③ 3-step dimming Casambi App setting
- ④ Daylight priority Casambi App setting
- ④ Daylight harvesting Casambi App setting
- ☑ Network function Casambi App setting

Features and operations are detailed:

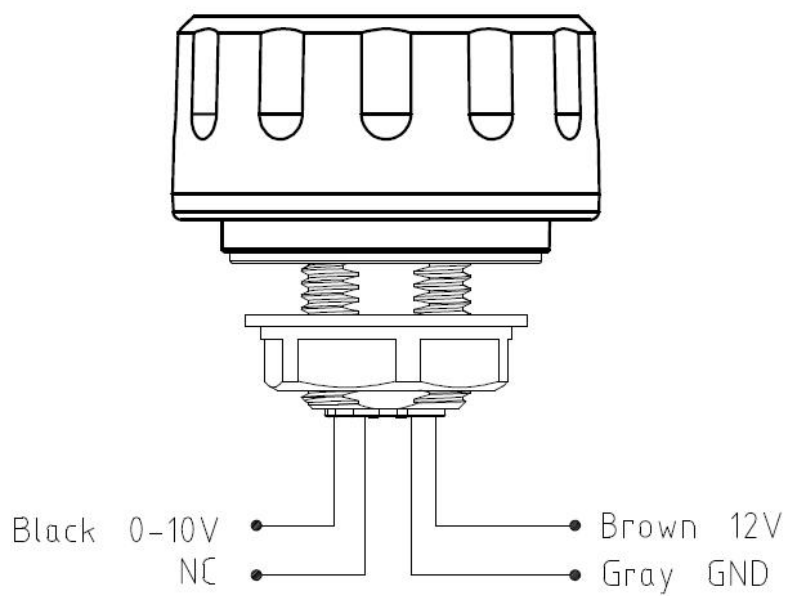
<https://support.casambi.com/support/solutions/articles/12000074041-presence-sensors>

【Product Information】

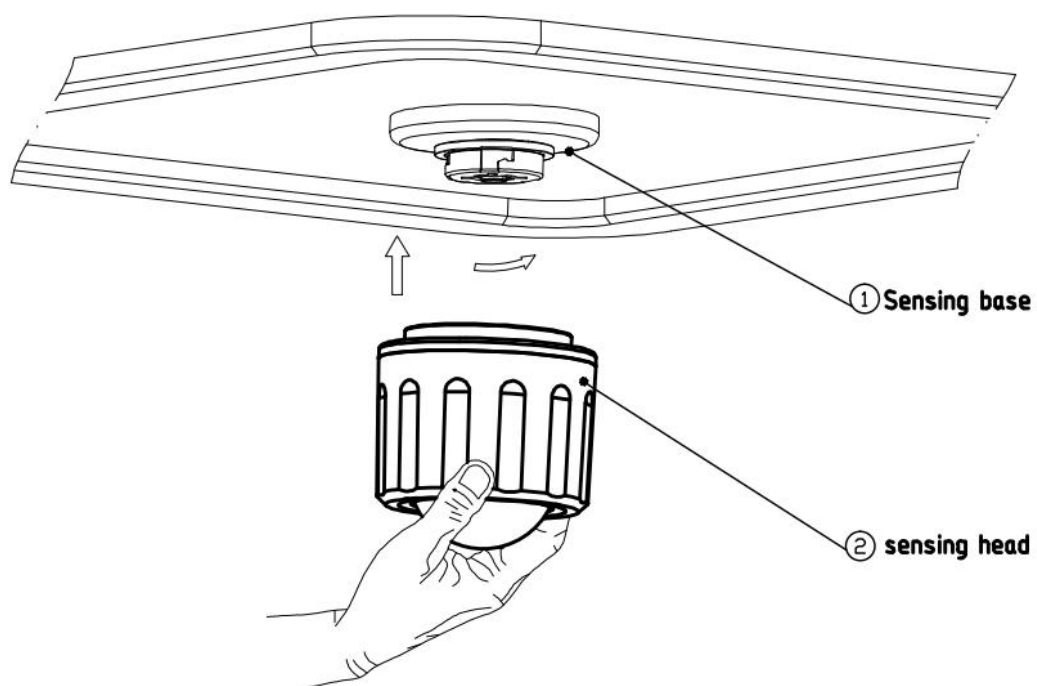
- Dimension (Unit: mm)



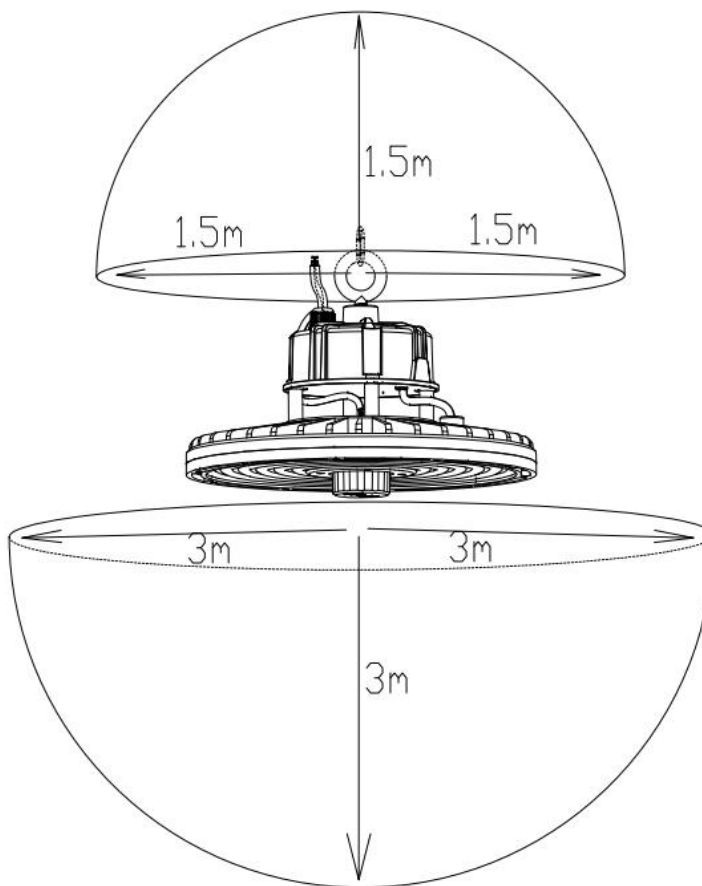
- Function



【Installation Instruction】



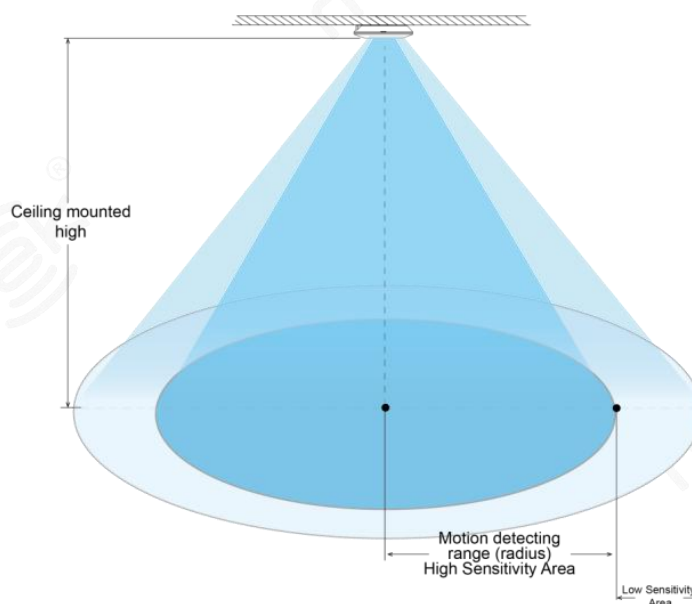
Installation environment



Note

There should be no metal objects within 1.5 to 3m around the microwave sensor when installing, otherwise false trigger may be caused by reflection around the sensor.

【Detection Range】



【Initialization】

- The sensor turns on the light at 100% brightness, and will be turned off after 10 seconds. During initialization, the sensor is not able to detect movement.

【Default setting】

Sensitivity: 100%, Hold time: 10s, Daylight sensor: Disable, Stand by period: 0s, Stand by DIM level: 10%

【Application Notice】

- Sensor should be installed by a professional electrician. Please turn off power before installing, wiring.
- The distance is related to factors such as the moving speed of the moving object, the size of the moving object, the installation height, the installation angle, whether the installation environment is open, and the material of the reflector. The detection distance given in the specification is a typical value, it is 165cm/65kg people who walks in an open indoor environment
- The daylight threshold is in a sunny environment, no shadows, and ambient light diffuse reflection conditions. In different periods, climates, and environments, the daylight value detected by the light sensor may be different.
- Sensor parameters may need to be reconfigured in different installation environments, please refer to the following instructions or contact the manufacturer
- This sensor is only for indoor use, outdoor use may be false triggered by wind and rain, and surrounding moving objects.
- The installation height of the sensor product cannot exceed 15 meters, and the suitable height is 12 meters; the distance between the two sensors should be greater than 3 meters
- When the sensor is installed in a metal lamp, on a metal reflective surface, or in a narrow closed environment, the microwaves will be reflected multiple times and cause false triggering. Please reduce the sensor sensitivity or contact the manufacturer for technical support.
- Sensor is compatible with different 0-10V driver but dimming effect will be different.
- DC regulated power supply with stable output voltage and low ripple coefficient must be used. The ripple of the power supply should be less than 100mV ; the load current should be greater than 50 mA
- For the new installation environment, it is recommended to test 5pcs samples before installation.