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MR32LC REV.B

Product Datasheet



Version V1.00

Release Date 2026-01-21

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Verification	Review	Approval

About This Document

This document mainly introduces the specification parameters of the MR32LC REV.B.

Revision History

Date	Version	Release notes
2026.01.21	V1.00	Initial release

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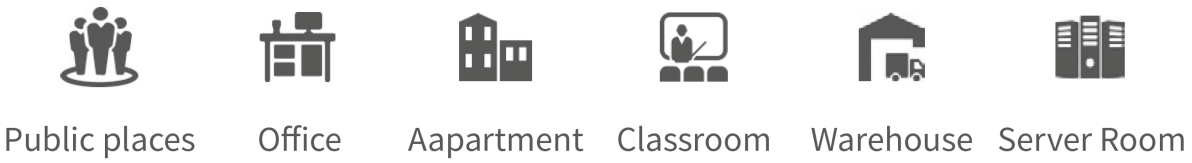
Address: 10th Floor, Building A, No. 3 Juquan Road, Guangzhou Science City, Huangpu District, Guangzhou, Guangdong, P.R. China

1. Overview

The MR32LC is a ceiling mounted occupancy sensor engineered for reliable presence detection in classrooms, offices, conference rooms, and similar commercial spaces.Leveraging a dual detection technology that integrates radar and passive infrared (PIR) sensing, the device delivers greatly enhanced detection accuracy.This LoRa

ceiling mounted occupancy sensor pairs with LoRa wall mounted panel switches to enable automated lighting control based on room occupancy.Built in BLE connectivity ensures effortless parameter configuration. Advanced settings can be easily adjusted directly from a mobile device.

2. Application Scenarios



3. Product Selection



Model	Transmit power	Areas	Band
MR32LC REV.B(CN490LC22V-1T1B)	+22dBm	China	CN490
MR32LC REV.B(AS923HS22V-1B1Y)	+22dBm	Asia Pacific	AS923

4. Product Features

- Ceiling-mounted installation
- 1 tactile pushbutton and 1 dual-colour LED indicator
- 1 channel 24GHz millimetre-wave radar (motion and breathing detection supported)
- 1 channel passive infrared (PIR) sensor
- 1-channel visible light sensor
- 1-channel relay output
- 1-channel LoRa communication (supports international standard protocols and private PMAC protocol)
- Supports Modbus-RTU protocol
- Supports BLE near-field wireless configuration
- Supports BLE near-field wireless firmware upgrade

- Adjustable reporting cycle
- Adjustable radar detection range
- Configurable sensing modes (radar-only, PIR-only, radar + PIR)

5. Electrical Specifications

Parameter	Min	Typ	Max	Remarks
Rated Voltage	-	220V AC	-	-
Operating Voltage Range	85V AC	-	264V AC	-
Frequency	-	50/60Hz	-	-
Frequency Range	45Hz	-	65Hz	-
Power Consumption	-	-	2W	When the maximum transmission power of LoRa is + 22 dBm
Rated Load	-	-	800W	Load Type: Incandescent Lamp
	-	-	400W	Load Type: Energy-saving Lamp、 LED Lamp、Fluorescent Lamp

6. LoRa RF Characteristics

Parameter	Min	Typ	Max	Remarks
Frequency Range	410MHz	-	960MHz	-
Transmit Power	-	-	+22dBm	-
Receive Sensitivity	-	-134dBm	-	SF10@BW125KHz

7. BLE RF Characteristics

Parameter	Min	Typ	Max	Remarks
Frequency Range	2402MHz	-	2480MHz	-
Transmit Power	-	0 dBm	-	-

Receive Sensitivity	-	-95 dBm	-	1Mbps
Communication Distance	-	10m	-	Open Environment

8. Radar Sensor Specifications

Parameter	Min	Typ	Max	Remarks
Frequency Range	24.00GHz	-	24.25GHz	-
Detection Angle	-	-	120°	-
Motion Line-of-Sight Detection Distance	-	-	8m	-
Presence Line-of-Sight Detection Distance	-	-	7m	-
Motion Detection Radius	-	-	5m	Mounting Height: 3 m
Presence Detection Radius	-	-	4m	Mounting Height: 3 m

9. PIR Sensor Specifications

Parameter	Min	Typ	Max	Remarks
Detection Angle	-	-	110°	-
Detection Distance	-	-	6m	-

10. Photosensitive RF Characteristics

Parameter	Min	Typ	Max	Remarks
Illuminance Value Range	-	-	400lux	-

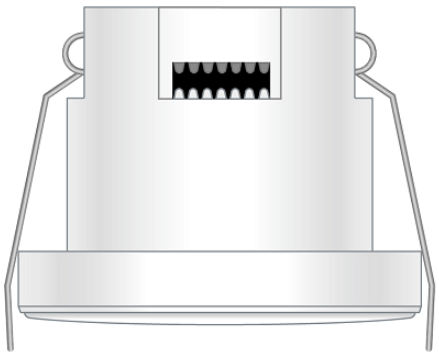
11. Environmental Characteristics

Parameter	Min	Typ	Max	Remarks
Rated Operating Temperature	-25℃	-	60℃	Normal operating conditions
Extended Operating Temperature	-40℃	-	85℃	Short-term Tolerance
Extreme Operating Temperature	-40℃	-	85℃	Short-term Tolerance
Storage Temperature	-40℃	-	85℃	-
Humidity	-	-	95%	Non-condensing
Protection Rating	-	IP20	-	IP Rating (Dust and Water Resistance
ESD Protection Level	-	Level 4	-	-
Surge (Impact) Protection Level	-	Level 2	-	-
Electrical Fast Transient (EFT) Burst Protection Level	-	Level 4	-	-

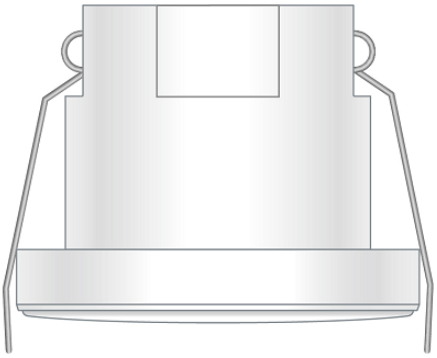
12. Hardware Description

Unit：All linear dimensions are specified in millimeters (mm).

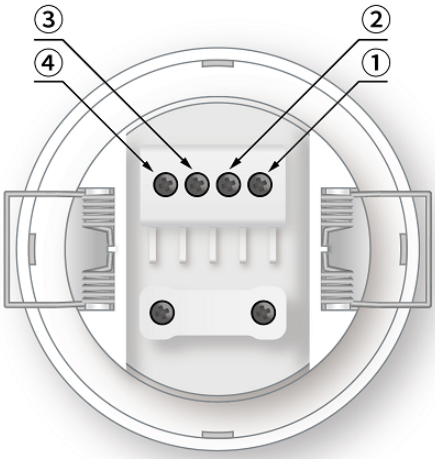
Tolerances: ±0.5 mm.



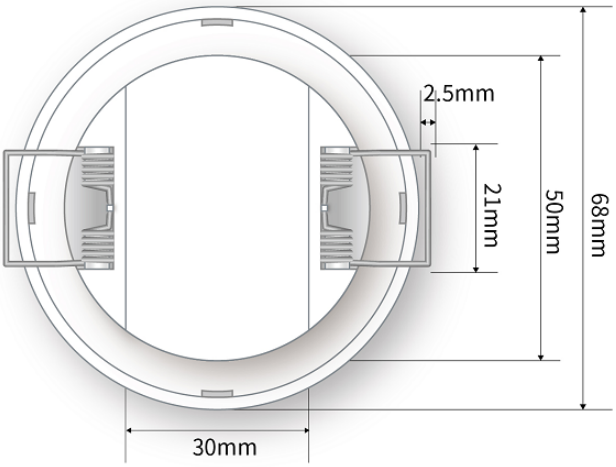
Front View



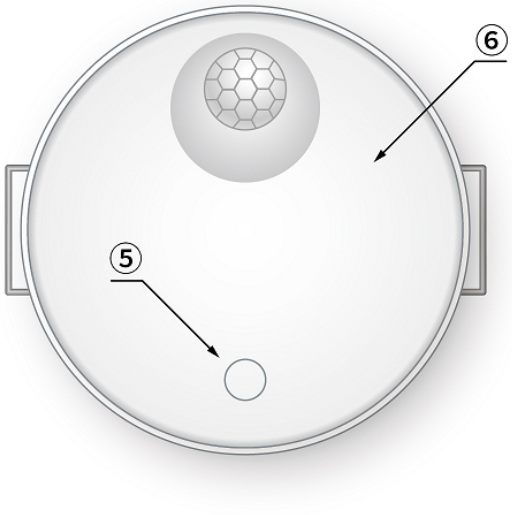
Back View



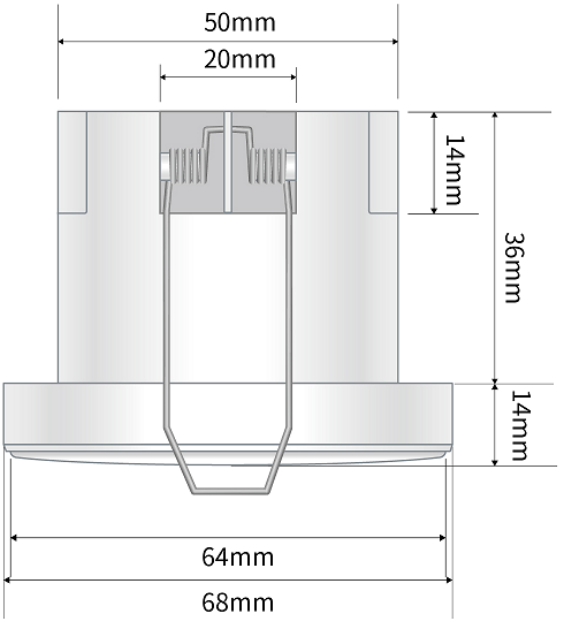
Top View (Cover Open)



Top View (Cover Closed)



Bottom View

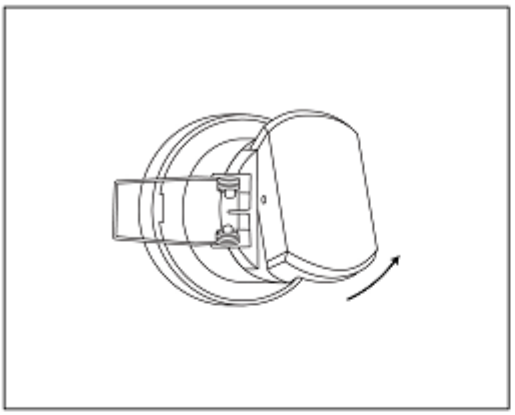


Left View & Right View

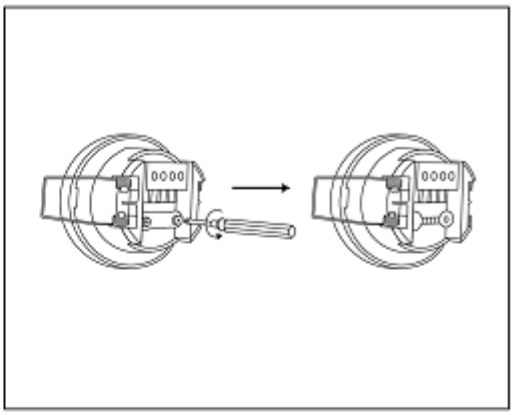
Sequence	Description	Remarks
1	Live Wire INPUT	Power supply input
2	Neutral Wire INPUT	Power supply input
3	Neutral Wire OUTPUT	Relay-controlled on/off: ON when occupied, OFF when vacant
4	Live Wire OUTPUT	Relay-controlled on/off: ON when occupied, OFF when vacant
5	Function Button	Press to trigger reporting
6	Indicator	Red light on: Human detected by PIR Green light on: Human detected by radar Green light flashing every second: Bluetooth connected

13. Installation Description

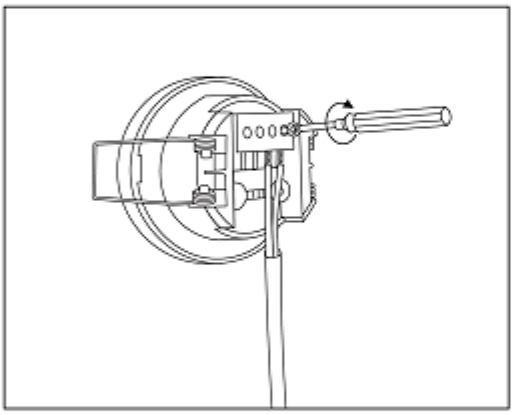
Safety Warning: All wiring operations must be performed with the power OFF to prevent electric shock.



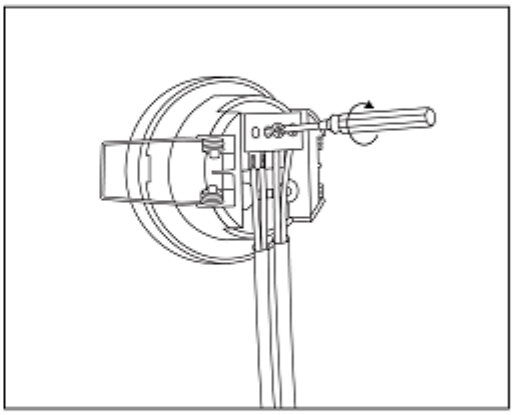
❶ Lift from the bottom to open the cover.



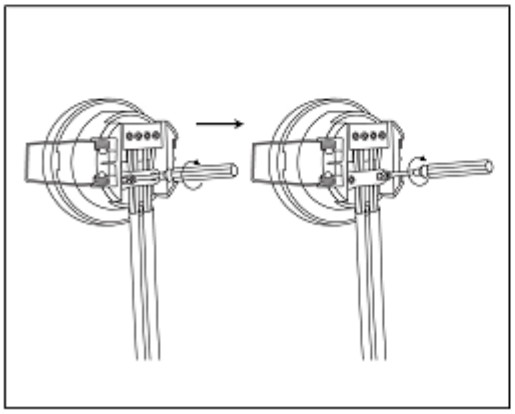
❷ Use a screwdriver to remove the fixing strip.



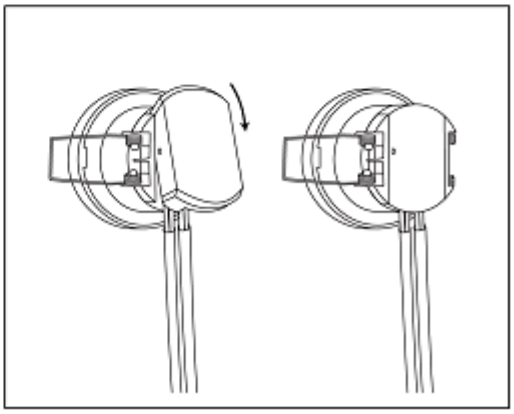
❸ Connect the Live and Neutral wires, and tighten the terminals.



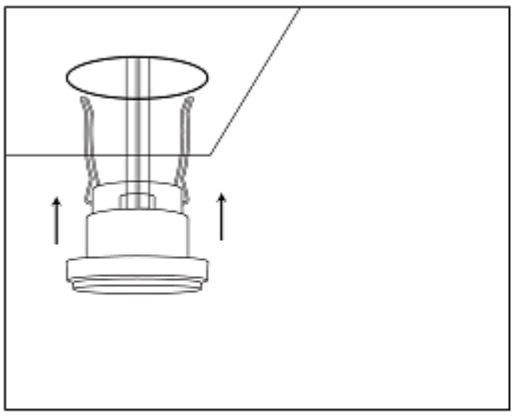
❹ Connect the load wire and tighten the terminal.



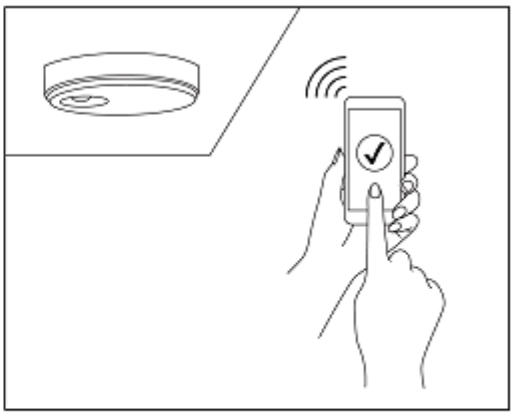
❺ Route cables neatly through the mounting strip and tighten the screw.



❻ Align the cover with the bottom clips and push it up until it snaps into place.



❼ Fully open the spring clips and lift the device into the mounting opening.



❽ Power on the device, then use the dedicated app to connect and configure it .

14.Packing List

Sequence	Material	Number
1	Sub-G Ceiling-mounted Presence Sensor	1
2	EUI Copies	3
3	Certificate of Conformity	1