

Presence sensor (ZigBee)

Product Introduction

This human presence sensor utilizes a 24GHz radar with a high-gain, wide-range beam orthogonal half-wave antenna. Equipped with advanced software algorithms, it accurately detects even the slightest human movements across indoor spaces, making it ideal for presence-based smart automation in smart homes, hotels, and offices.

Features

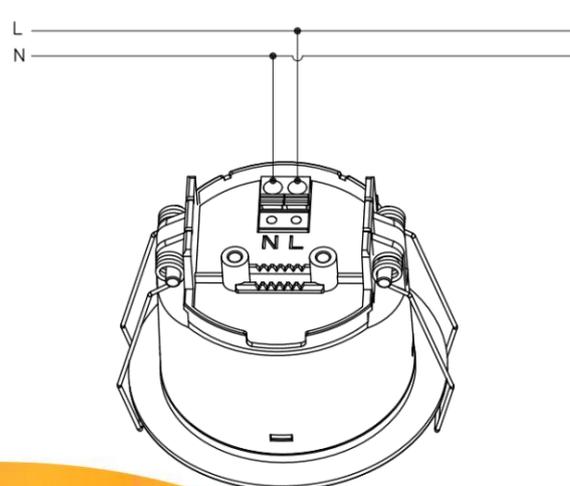
- Accurate presence detection (occupied/unoccupied)
- Precise ambient light sensing
- 24GHz ISM-band millimeter-wave radar, globally compatible
- Circular radiation pattern for full-space coverage with a single device
- Ultra-low RF power, safe for human health



Specification

- Model: MSA201 Z
- Communication: ZigBee 3.0
- Radar Frequency: 24GHz-24.25GHz ISM Band
- Detection Range (at maximum sensitivity/radius):
 - Motion (3m height): 4 ~5 meters
 - Micro-motion (3m height): 4 ~ 5 meters
 - Presence (3m height): 3 ~4 meters
- Illuminance Detection Range: 5-1200 Lux
- Input Voltage: 100V~240VAC
- Operating Current: Max 50mA
- Power Consumption: $\leq 1W$ at 230V AC
- Installation Height: 2.5 to 4.0m (typical: 3m)
- Operating Temperature: 0 to 50°C
- Protection Rating: IP20
- Certifications: CE, FCC

Wiring Diagram



Networking method

1. Connect the power lines according to the wiring diagram and power on the device.
2. Press and hold the reset button for about 10 seconds until the indicator light flashes rapidly, indicating that the device is in network configuration mode.
3. Add the device to the network using a gateway.

Product Dimensions Diagram (mm)

