

owon OPS305 China 1ZigBee Occupancy Sensor User Guide

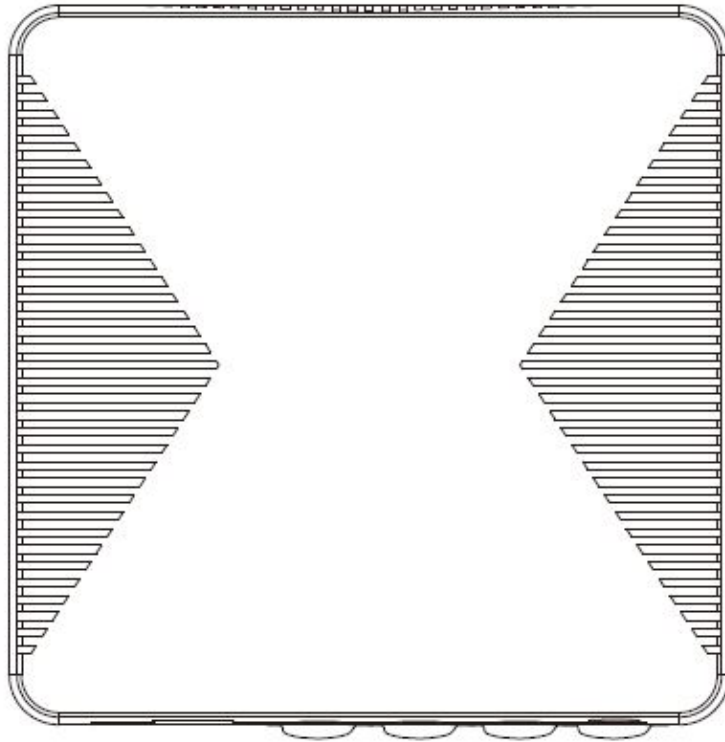
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owon OPS305 China 1ZigBee Occupancy Sensor



Safety Handling

WARNING: Failure to follow these safety notices could result in fire, electric shock, other injuries, or damage to the Occupancy Sensor and other property. Read all the safety notices below before using the Occupancy Sensor.

- Avoid high humidity or extreme temperatures.
- Avoid long exposure to direct sunlight or strong ultraviolet light.
- Do not drop or expose the unit to intense vibration.
- Do not disassemble or try to repair the unit on your own.
- Do not expose the unit or its accessories to flammable liquids, gases or other explosives.

Technical Specifications

Wireless Connectivity	
ZigBee	<ul style="list-style-type: none"> • 2.4GHz IEEE 802.15.4
ZigBee Profile	<ul style="list-style-type: none"> • ZigBee 3.0
RF Characteristics Physical	<ul style="list-style-type: none"> • Operating frequency: 2.4GHz • Range outdoor/indoor: 100m /Sp30emci(fiOpceantaiores)s
Physical Specifications	
Operating Voltage	<ul style="list-style-type: none"> • Micro-USB
Detector	<ul style="list-style-type: none"> • 10.525GHz Doppler Radar
Detection Range	<ul style="list-style-type: none"> • Maximum radius: 3m • Angle: 100° (±10°)
Hanging height	<ul style="list-style-type: none"> • Maximum 3m
IP rate	<ul style="list-style-type: none"> • IP54
Operating environment	Temperature: -20 °C ~+55 °C Humidity: ≤ 90% non-condensing
Dimension	<ul style="list-style-type: none"> • 86(L) x 86(W) x 37(H) mm
Mounting Type	<ul style="list-style-type: none"> • Ceiling

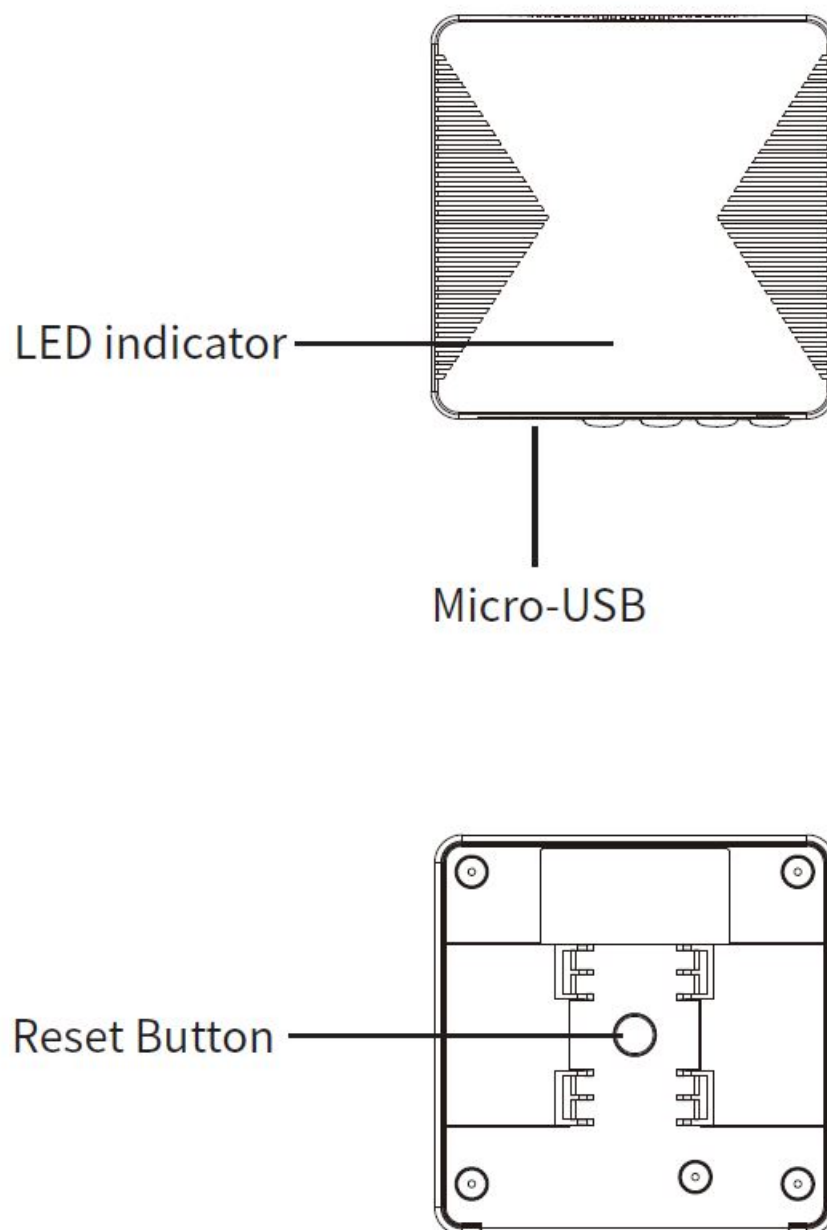
Welcome

OPS305 Occupancy Sensor can detect presence, even if you are asleep or in a stationary posture. Presence detected via radar technology, which is more sensitive and accurate than PIR detection. It can be tremendously beneficial in nursing homes to monitor and link with other devices to make your home smarter. This guide will provide you with an overview of the product and help you get through the initial setup to installation.

Features

- ZigBee 3.0
- Discern presence, even if you are in a stationary posture
- More sensitive and accurate than PIR detection
- Extend the range and strengthen ZigBee network communication
- Suitable for both residential and commercial application

Get to know your device



Reset Button

Reset: Press and hold the reset button for 10 seconds until the LED light flashes three times at third second, and

it will flash three times in the tenth second.

LED indicator

The LED status gives the following information of the occupancy sensor

LED Status	What it means
No light	Device has joined a ZigBee network.
Continuous and slow flashing	Device has not joined a ZigBee network.
Flashing once	Presence detected
When you press the reset button once	
Flashing once	Device has joined a ZigBee network.
Flashing three times	Device has not joined a ZigBee network.

Configure Network

Before starting, you will need

- A ZigBee Gateway.

Adding to the gateway's network

Follow the steps below to join the occupancy sensor to the gateway's network

1. Power on the occupancy sensor, the LED indicator will start continuous and slow flashing, which means it is ready to join the network. If not, please reset it.
2. Set your gateway to permit joining.
3. The occupancy sensor will join the gateway's network automatically and the LED indicator will go out when successfully joined.

Installation

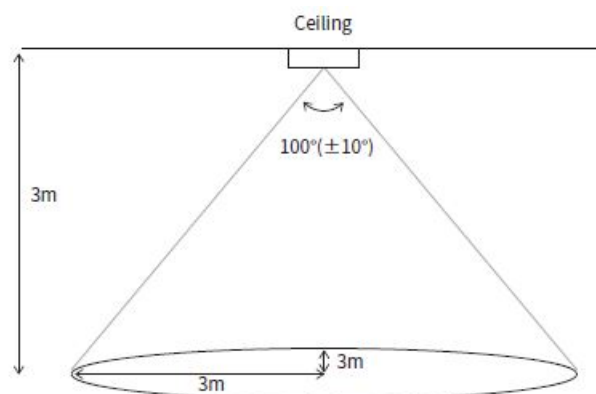
Important safety information!

- Do not touch the terminals of the device while testing.
 - Turn off all the power supply for this equipment before installing.
 - Make sure that the power supply is off before connecting or disconnecting it to an auxiliary device.
 - Always use a properly rated voltage sensing device to confirm power is off.
 - Replace all devices, doors and covers before applying power to the equipment.
1. The installation location should be far away from pets, ventilation ducts, fire-fighting ducts, drainage ducts,

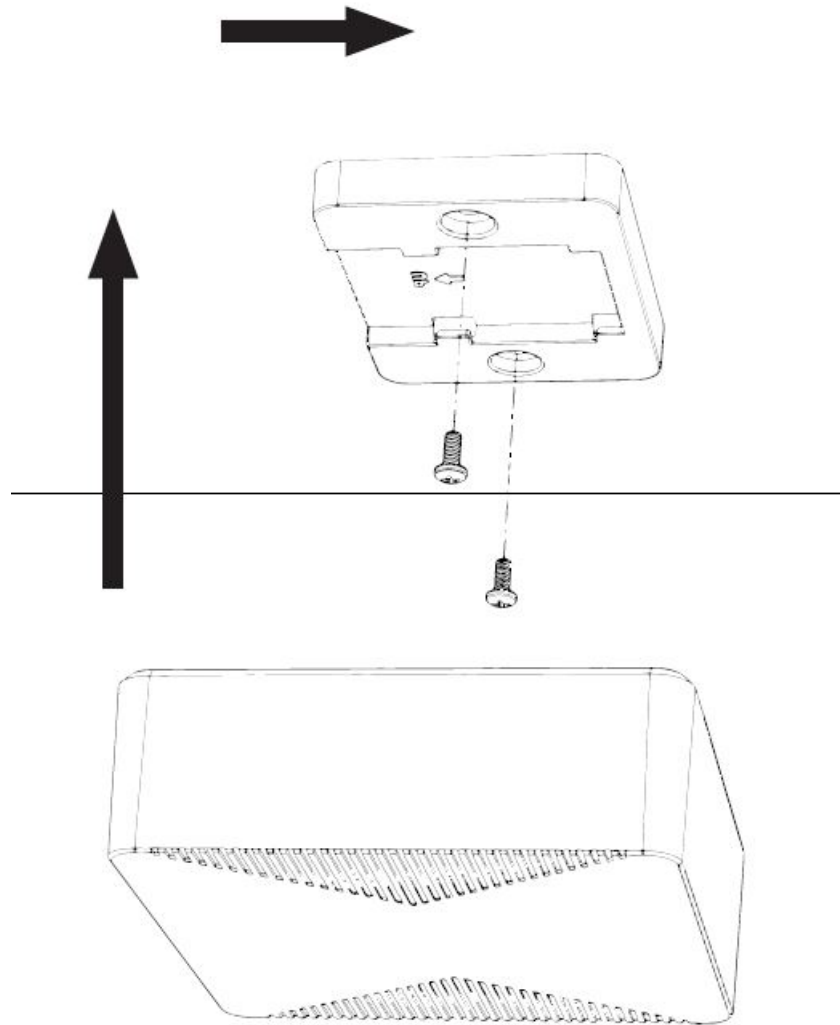
mechanical vibration, large metal equipment or places with vibrating and swinging objects, because it will affect the radar reflection and cause false alarm.



2. You need to pay attention to the distance and range of the occupancy sensor when installing. Within the sensing range, avoid facing another occupancy sensor or radar equipment.



3. Use the mounting bracket as template to mark the two holes on the ceiling for installing screws.
4. Screw the mounting bracket onto the ceiling according to marked location. Install wall plugs if necessary.
5. Locate the hooks of the mounting bracket and line up the hooks with the mounting holes on occupancy sensor. Fit the hooks into the mounting holes as the picture below. Installation is now completed.



Documents / Resources



OPS305
Occupancy Sensor
Quick Start Guide

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OPS305, China 1ZigBee Occupancy Sensor, 1ZigBee Occupancy Sensor, Occupancy Sensor, OPS305, Sensor