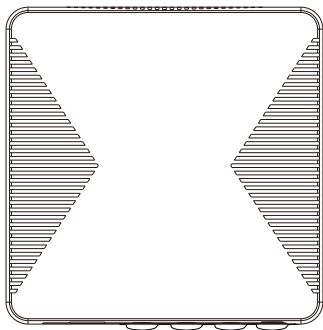




OPS305

Occupancy Sensor

Quick Start Guide

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	• 2.4GHz IEEE 802.15.4
ZigBee Profile	• ZigBee 3.0
RF Characteristics	• Operating frequency: 2.4GHz • Range outdoor: 100m (Open area)

Physical Specifications

Operating Voltage	• Micro-USB (5V/1A)
Detector	• 24GHz Millimeter Wave Radar
Detection Range	• Ceiling-mounted Maximum radius: 3m Angle: 110° • Wall-mounted Maximum distance: 6m Angle: 110°
Hanging height	• Ceiling-mounted: 2.6~3m • Wall-mounted: 1.5~2m
Operating environment	• Temperature: -40 °C~+85 °C • Humidity: ≤ 90% non-condensing
Dimension	• 86(L) x 86(W) x 37(H) mm
Mounting Type	• Ceiling/Wall mount

1

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
- Supports intelligent recognition of three modes: large movement, micro movement and no presence
- 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

2

Installaion

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.

Before installing, the location should be:

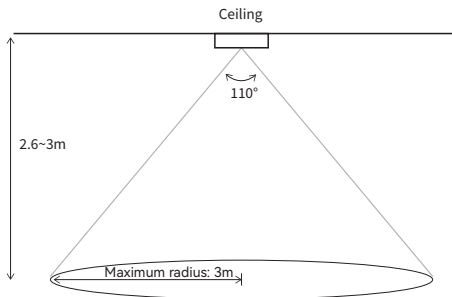
- a) Avoid objects that generate high temperature, and keep a distance of more than 1M from heating devices (bathroom, radiator, etc.)
- b) To avoid occlusion, the distance between the device and other furniture such as cabinets on the same side is greater than 1M.
- c) Avoid objects that will block the monitoring range.
- d) Far away from pets, ventilation ducts, fire-fighting ducts, drainage ducts, mechanical vibration, large metal equipment, or places with vibrating and swinging objects.
- e) More than 4m away from other radar equipment

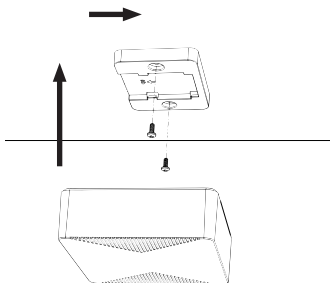


You can mount the sensor in the ceiling or on the wall. Please refer to the corresponding installation method.

2.1 Ceiling mounting

1. Please pay attention to the distance and range of the occupancy sensor when ceiling mounting.



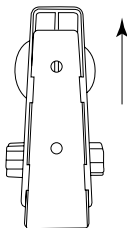


2. Use the mounting bracket as template to mark the two holes on the ceiling for installing screws.
3. Screw the mounting bracket onto the ceiling according to marked location. Install wall plugs if necessary.
4. Locate the hooks of the mounting bracket and line up the hooks with the mounting holes on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

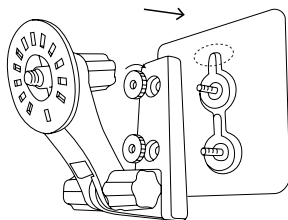
2.2 Wall mounting

Installation:

1) Install the back cover of the wall stand as below.

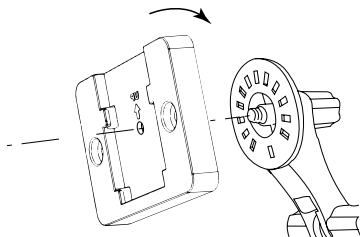


2) Align the wall stand with the wall sticker and screw them together using gear.

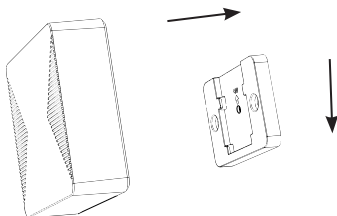


Note: The arrow on the wall sticker need to point up.

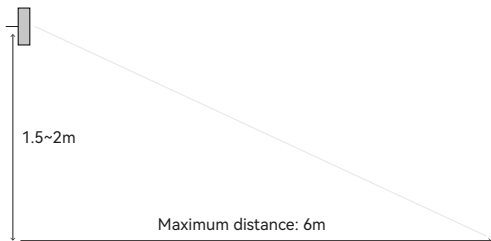
3) Screw the mounting bracket into the wall stand.



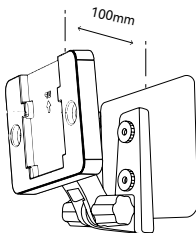
4) Locate the hooks of the mounting bracket and line up the hooks with the mounting holes on the sensor, then fit the hooks into the mounting holes as below picture.



5) And wall stickers are not suitable for sticking on lime wall, brick, cement wall and wallpaper. Please pay attention to the distance and range of the occupancy sensor when wall mounting.

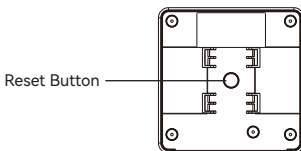
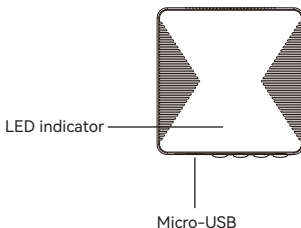


6) Peel off the wall sticker and attach the sensor to the wall. Do not install the sensor on the same wall side as the door. After the installation is completed, please check whether it is firm and cannot be shaken. Make sure the back of the sensor is parallel to the wall and the stand is open about 100mm. After that, tighten the gear adjuster.



3

Get to know your device



Reset Button

Reset: Press and hold the reset button for 6 seconds until the LED light flashes red rapidly three times.

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	Large movement 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.

4

Configure Network

4.1 Before starting, you will need:

- A ZigBee Gateway.

4.2 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.