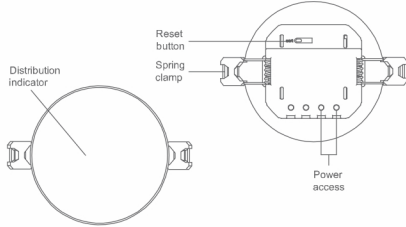


Human presence sensor
User Manual

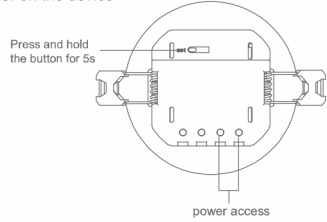
The human presence sensor has the function of human presence, human static, human micro motion and human motion detection, which can detect the presence or absence of people in the area. It can also accurately detect the static state such as personnel sleeping. The sensor can output sensing results through wireless (WiFi, ZigBee, Bluetooth, 4G) or wired (RS485, RS232, dry contact, wet contact) to provide sensing and scene intermodal functions for IOT fields such as smart home, smart hotel, smart office, smart elevator, security monitoring, etc.



Product introduction

Entering the Network Configuration Mode

1. Power on the device

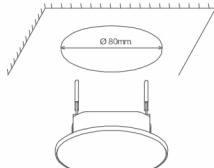


2. Long press the button until blue indicator light flash quickly, then sensor enter network configuration state.
3. When network configuration, make sure the device as close as possible to the Gateway.
4. Open My Home Page in TuyaSmart App, click to enter the added gateway, select to add sub-device. Then follow the operation according to the App hint.
5. If network configuration fail, repeat to long press the device button until blue light flash quickly. Repeat above operation.

Installation instruction

- a. Select a suitable installation position on the ceiling according to the range and shape of the area to be tested to ensure that the detection area can be effectively covered.

- b. The diameter of the equipment panel is 93mm, the rear rectangular part is 65x70mm, and a circular hole with a diameter of 80mm can be opened on the ceiling.

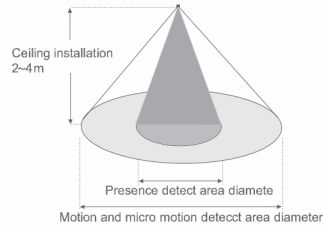


- c. Clamp the power and signal wires on the equipment (clamp the wires gently, otherwise the wires are easy to be clamped off and introduced into the ceiling opening).

- d. Clip the equipment into the ceiling hole to complete the installation.

Detection area instruction

1. Device detection area:
presence detect diameter : 2-6 m.
motion and micro motion detect diameter : 8-12 m.



Important hint: the detectable distance is related to many factors such as installation environment, human volume, relative angle and micro motion / movement speed. The above parameters are only the test results of our testers for reference only. In different environment, the user shall be subject to the actual measurement.

Use instruction

In order to better adapt the equipment to the scene and environment and realize the best detection function and performance index simultaneously, the three main parameters of "detection distance ", sensitivity "and" delay time "can be adjusted:

1. Detection distance: up to 9.5 m, default to 6 m. If the detection distance is too far, unnecessary target interference is easy to occur in the scene with low installation height and narrow installation height (secondary multiple reflection, L-shaped right angle reflection and other effects lead to the detection of targets that do not need to be detected or affect parameter indicators);

2. Sensitivity: any number from 0 to 9 can be set. 9 represents the highest sensitivity and 0 represents the lowest. The default sensitivity is 7. The smaller the sensitivity, the greater the target micro motion or breathing amplitude and the closer the distance can be detected. The greater the sensitivity, if there are weaker and wider range of interferents, it is easier to make false alarm.

3. Delay time: the delay time has two parameters:

(1) The parameter configures the confirmation time after "target detected". Configuring the best parameter value can greatly reduce the false alarm rate. Although the larger the value is, the more reliable it is, when the real target appears, the equipment needs a longer time to report that the target has been detected.

(2) The parameter configures the confirmation time after the "target disappears" (the delay time generally understood by the user). The larger the configured parameter value, the easier it is to reduce the false alarm rate caused by the accidental disappearance of the target. Although the larger the value, the more reliable it is, after the target really disappears, the equipment needs a longer time to report that the target has disappeared.

Common problems and precautions

(1) Detect someone when no one there: it is recommended to set the detection distance short, high and low sensitivity to investigate the cause and find the interferences in the environment. Avoid the interference by limiting the farthest detection distance and installation method.

(2) Cannot detect when human present: people need to be in the effective detection area; if sitting still, they need the body parts with relative movement (such as breathing movement) to be inclined or facing the equipment and then be detected.

(3) It is suggested that the target disappearance confirmation time (delay time) should not be too small. The default time is 15 seconds. If it is smaller, the target may disappear with a certain probability due to accidental respiratory pause, resulting in missing report.

(4) In the scenes with low and narrow installation height, such as bathroom, washing room and kitchen, it is recommended to set the detection distance smaller than the installation height and have high and low sensitivity.

Technical parameter

Product name	Human presence sensor
Wireless Technology	Zigbee / WiFi
Work voltage	AC 110V ~ 250V
Work temperature	-20℃ ~ +70℃
Sensitivity	0 ~ 9
Detect distance	0 ~ 9.5m
Delay time	1. target detection confirmation time: 0 ~ 0.5 s; 2. target disappearance delay time: 20 s ~ 5min;
Light sense	0 ~ 2000Lux
Installation mode	Ceiling
Product size	Ø93x30

Packing List

- Human presence sensor x1
- User manualx1

Warranty Certificate Toxic or Hazardous Substances or Elements of this Product

Component name	Toxic or Hazardous Substances or Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
LED	○	○	○	○	○	○
PCB	x	○	○	○	○	○
Cover and other components	x	○	○	○	○	○

This table complies with SJ/T 11364.

O: indicates that the toxic or hazardous substance amount contained in all homogeneous materials of a component does not exceed that stipulated in GB/T 26572.

X: indicates that the toxic or hazardous substance amount contained in at least one of the homogeneous materials of a component exceeds that stipulated in GB/T 26572.

Warranty Certificate

Warranty policy:

1. If the product has quality problems within 7 days of the payment date, you can apply for a refund based on the invoice price or to replace the product with one of the same model.

2. If the product has quality problems within 15 days of the payment date, you can apply to replace the product with one of the same model.

3. If the product has quality problems within 12 months of the payment date, you can apply to have the product repaired.

What is not covered under this warranty:

1. The product owner has no warranty certificate or the warranty service has expired.
2. Damage caused by improper use, maintenance, or storage.
3. Damage caused by disassembly and repair without Tuya's authorization.
4. Damage caused by force majeure.
5. Normal discoloration and depreciation after the product has been used.

User Form

User information (Specify real information. Tuya promises to use the information only for after-sales services.)

Name_____

Phone number_____

Email_____

Zip code_____

Address_____

Product information

Name_____Model_____

Color_____Product SN_____

Service Return ○ Replace ○ Repair ○

Fault symptoms_____

Handling date_____

Maintenance personnel signature_____

Vendor Form

User information (Specify real information. Tuya promises to use the information only for after-sales services.)

Name_____

Phone number_____

Email_____

Zip code_____

Address_____

Product information

Name_____Model_____

Color_____Product SN_____

Service Return ○ Replace ○ Repair ○

Fault symptoms_____

Handling date_____

Maintenance personnel signature_____

Please read the instruction manual carefully before using the product