Gaoducash TH05-2

Gaoducash Smart PIR Motion Sensor (Model TH05-2) User Manual

Model: TH05-2 | Brand: Gaoducash

1. INTRODUCTION

The Gaoducash Smart PIR Motion Sensor is a wireless motion detector designed to enhance home security and smart home automation. It operates via WiFi, sending real-time notification alerts to your smartphone through the Tuya Smart or Smart Life application. This sensor features a wide detection angle and distance, advanced infrared detection technology to minimize false alarms, and supports integration with other smart devices for automated routines. No additional hub is required for operation.

2. PACKAGE CONTENTS

- 2 x Gaoducash Smart PIR Motion Sensors
- 4 x AAA Batteries (2 per sensor)
- Mounting Accessories (film sticker/screws)
- User Manual

3. SPECIFICATIONS

Feature	Specification
Brand	Gaoducash
Model Number	TH05-2
Power Source	Battery Powered (2x AAA batteries per sensor)
Detection Angle	128°
Detection Distance	6-40 feet (approx. 2-12 meters)
Connectivity	Wi-Fi (No Hub Required)
Compatible Apps	Tuya Smart / Smart Life

Compatible Devices	Alexa
Mounting Type	Wall Mount (Adhesive or Screws)
Product Dimensions	1.17"D x 0.98"W x 1.18"H (approx. 29.7mm D x 24.9mm W x 30mm H)
Item Weight	0.09 Kilograms (approx. 3.2 ounces)
Operating Temperature	32°F to 104°F (0°C to 40°C)

Note: Specifications are subject to change without prior notice.

4. SETUP GUIDE

4.1 Download the App

The Gaoducash Smart PIR Motion Sensor operates with the Tuya Smart or Smart Life application. You can download either app from your device's app store (Google Play Store for Android or Apple App Store for iOS).

Image: Mobile App Remote Monitor your home. The image displays the Gaoducash Smart PIR Motion Sensor next to a smartphone showing the 'Motion detected' status in the Tuya Smart app.

4.2 Install Batteries

The sensor requires two AAA batteries. To install them:

1. Gently slide open the back cover of the sensor.
2. Insert two AAA batteries, ensuring correct polarity (+/-).
3. Close the back cover securely.

Image: Low Power Consumption. This image shows the interior of the motion sensor with two AAA batteries correctly installed, highlighting its low power design.

4.3 Pair the Sensor with the App

Follow these steps to connect your sensor to the Tuya Smart or Smart Life app:

1. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network.
2. Open the Tuya Smart or Smart Life app and log in or create an account.
3. Press and hold the reset button on the sensor for approximately 5 seconds using a pin or a similar tool. The LED indicator on the sensor will begin to flash rapidly, indicating it is in pairing mode.
4. In the app, tap 'Add Device' or the '+' icon. The app should automatically discover the motion sensor. If not, select 'Add Manually' and choose 'Motion Sensor' from the list.
5. Follow the on-screen prompts to complete the pairing process, which may include confirming your Wi-Fi network and password.
6. Once successfully added, the sensor will appear in your device list in the app.

Your browser does not support the video tag.

Video: Smart Motion Sensor Setup. This video demonstrates the process of installing batteries, resetting the sensor, and pairing it with the mobile application for initial setup.

5. INSTALLATION

The Gaoducash Smart PIR Motion Sensor can be installed in various locations using either the provided adhesive film or screws.

5.1 Choosing a Location

Consider the following when selecting an installation spot:

- **Detection Area:** Place the sensor where its 128° detection angle and 6-40 feet range can effectively cover the desired area (e.g., corridors, doorways, garages, safes, rooms).
- **Avoid Obstructions:** Ensure there are no large objects blocking the sensor's field of view.
- **Optimal Height:** Install at a height that allows for optimal human motion detection, typically 6-8 feet (1.8-2.4 meters) from the floor.
- **Environmental Factors:** Avoid direct sunlight, heat sources, or areas with strong air currents, as these can cause false alarms.

5.2 Mounting Methods

Using Adhesive Film:

1. Clean the surface where you intend to mount the sensor.
2. Peel off the protective backing from the adhesive film.
3. Attach the film to the back of the sensor.
4. Press the sensor firmly onto the desired surface for at least 30 seconds.

Using Screws:

1. Mark the positions for the two screw holes on the mounting surface using the sensor's back plate as a guide.
2. Drill pilot holes if necessary.
3. Secure the sensor's back plate to the wall using the provided screws.
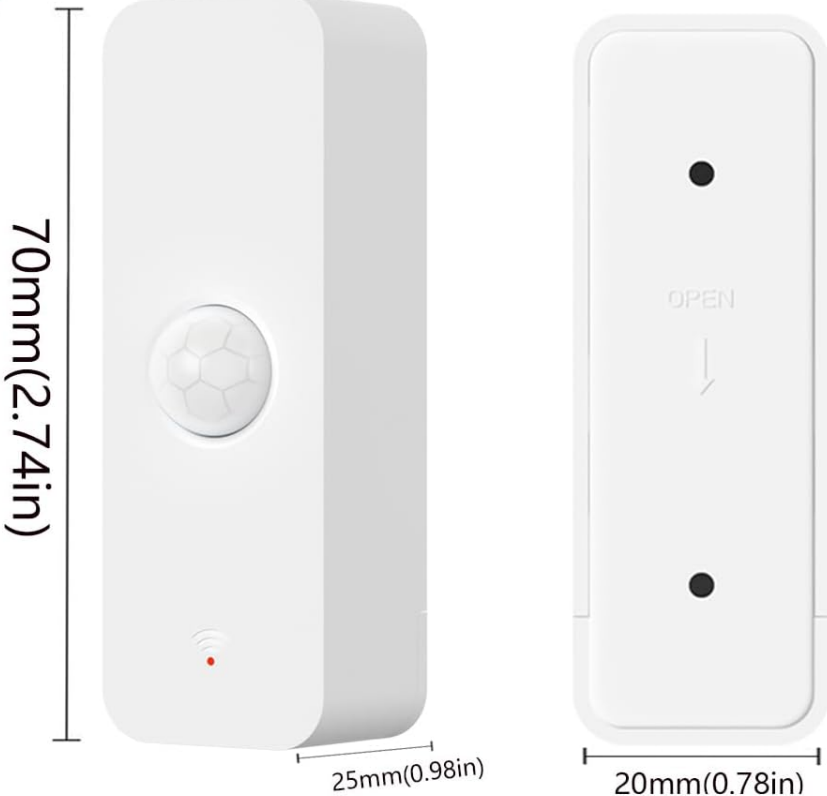4. Slide the sensor onto the mounted back plate.

Parameter

70mm(2.74in)

25mm(0.98in)

OPEN

20mm(0.78in)

Product Name	Model	Control Method
PIR Motion Sensor	P01	Mobile/Local Remote Control
Standby Current	**Battery**	**Alarm Current**
22uA	LR03-1.5V/AAA*2	≤45mA
Detect Distance	**Detect Angle**	**Product Size**
≤ 6 Meters	128° wide-angle	71*25*20mm

Image: Sensor Installation. This image depicts the motion sensor mounted on a wall near a doorway, demonstrating a

6. OPERATION

6.1 Real-time Monitoring and Notifications

Once installed and paired, the sensor will continuously monitor for motion. When motion is detected, the app will send an instant notification alert to your smartphone. You can view a history of all detected movements within the app.

Image: App Remote Monitoring & Free Alert Record. This image displays two app screens: one showing a 'Motion detected' alert and another detailing the history of motion events.

6.2 Creating Smart Routines

Leverage the Tuya Smart/Smart Life app to create automated routines based on motion detection. This allows your motion sensor to trigger actions on other compatible smart devices.
Example Routines:

- **Automatic Lighting:** When motion is detected in a room, turn on smart lights.
- **Security Alerts:** If motion is detected when you are away, trigger a smart siren or send an alert to a security camera.
- **Energy Saving:** If no motion is detected for a set period, turn off lights or adjust smart thermostats.

Image: Create Routines. This image illustrates how the motion sensor can be used to automate actions like turning on lights in an office or managing power in a hotel setting.

Your browser does not support the video tag.

Video: Smart Motion Sensor Automation. This video demonstrates the sensor's intelligent linkage capabilities, showing how it can trigger actions like turning on lights and opening curtains upon motion detection, and reversing these actions when no motion is detected.

7. MAINTENANCE

7.1 Battery Replacement

The sensor will send a low battery notification to your app when the batteries need to be replaced. To replace them:

1. Slide open the back cover of the sensor.
2. Remove the old AAA batteries.
3. Insert two new AAA batteries, ensuring correct polarity.
4. Close the back cover securely.

Image: Low Power Alarm. This image visually represents the low power alarm feature, indicating when battery replacement is needed for the motion sensor.

7.2 Cleaning

To ensure optimal performance, periodically clean the sensor's lens and body with a soft, dry cloth. Avoid using

abrasive cleaners or solvents.

8. Troubleshooting

- **Sensor not connecting to Wi-Fi:**
  Ensure your Wi-Fi network is 2.4GHz. Check that the sensor is within range of your Wi-Fi router. Verify your Wi-Fi password is entered correctly in the app. Try resetting the sensor and attempting the pairing process again.

- **Delayed notifications:**
  A slight delay (3-6 seconds) between motion detection and app notification can occur due to network latency. Ensure your Wi-Fi signal is strong and stable. Check for any app or device updates.

- **False alarms:**
  Review the sensor's placement. Avoid areas with direct sunlight, strong air currents (e.g., near vents), or rapidly changing temperatures. Ensure the detection area is clear of moving objects like curtains or pets if not desired to be detected. The sensor uses intelligent analysis algorithms to distinguish interference signals from human movement, but extreme conditions can still affect it.

- **Motion not detected consistently:**
  Check the sensor's orientation and height to ensure the detection area covers the desired path of movement. The detection range is 6-40 feet; ensure the target is within this range. Replace batteries if they are low.

- **App not discovering device during pairing:**
  Confirm the sensor's LED is flashing rapidly, indicating pairing mode. Ensure Bluetooth is enabled on your phone (some apps use Bluetooth for initial discovery before Wi-Fi connection). Try restarting your phone and the app.

9. Warranty and Support

Gaoducash provides an industry-leading **24-month warranty** for this product. If you encounter any issues or require assistance, please contact Gaoducash customer support through the retailer where you purchased the product or visit the official Gaoducash website for support information.