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## SAMOTECH SM301Z

# SAMOTECH SM301Z Zigbee Motion Sensor User Manual

## 1. INTRODUCTION

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The SAMOTECH SM301Z is a Zigbee-enabled motion sensor designed to enhance your smart home system. It provides reliable motion detection, enabling automation routines for lighting, security, and other smart devices. This manual provides detailed instructions for setup, operation, and maintenance of your SM301Z motion sensor.



## 2. PACKAGE CONTENTS

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Verify that all items are present in your package:

- 1 x SAMOTECH SM301Z Zigbee Motion Sensor
- 3 x AAA Batteries
- 1 x Mounting Adhesive

## 3. SPECIFICATIONS

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Brand	SAMOTECH
Model Number	SM301Z
Power Source	Battery Powered
Battery Type	3 x AAA (included)
Estimated Battery Life	3+ years (due to low power Zigbee chipset)
Package Dimensions	8.7 x 8.6 x 4 cm
Weight	110 grams
Maximum Range	3 Meters
Mounting Type	Wall Mount
Compatible Devices/Hubs	Home Assistant, Samotech SM310ZHA Hub, deCONZ, SmartThings IDE, Hubitat Elevation
Incompatible Devices	Philips Hue

## 4. SETUP AND INSTALLATION

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### 4.1. Important Compatibility Note

The SAMOTECH SM301Z is a **Zigbee** device and requires a compatible Zigbee hub for operation. It is not a Wi-Fi device and cannot connect directly to your Wi-Fi network. Ensure you have a compatible Zigbee hub (e.g., Samotech SM310ZHA Hub, deCONZ, SmartThings, Hubitat Elevation, Home Assistant) before proceeding.



Zigbee hub required  
Zigbee Hub est requis  
Se requiere Zigbee Hub  
Zigbee Hub è obbligatorio  
Zigbee Hub ist erforderlich

Image 4.1: The SM301Z requires a Zigbee hub and is not Wi-Fi compatible.

## 4.2. Battery Installation

1. Gently open the back cover of the motion sensor.
2. Insert the three AAA batteries into the battery compartment, ensuring correct polarity (+/-).
3. Close the back cover securely.

## 4.3. Pairing with Your Zigbee Hub

Follow these general steps to pair your SM301Z sensor with your Zigbee hub. Specific steps may vary slightly depending on your hub's application:

1. Ensure your Zigbee hub is powered on and in pairing mode (refer to your hub's manual for specific instructions).
2. On the SM301Z sensor, locate the RESET button (usually a small pinhole button). Press and hold the RESET button for approximately 5 seconds until the LED indicator on the sensor begins to blink. This indicates the sensor is in pairing mode.

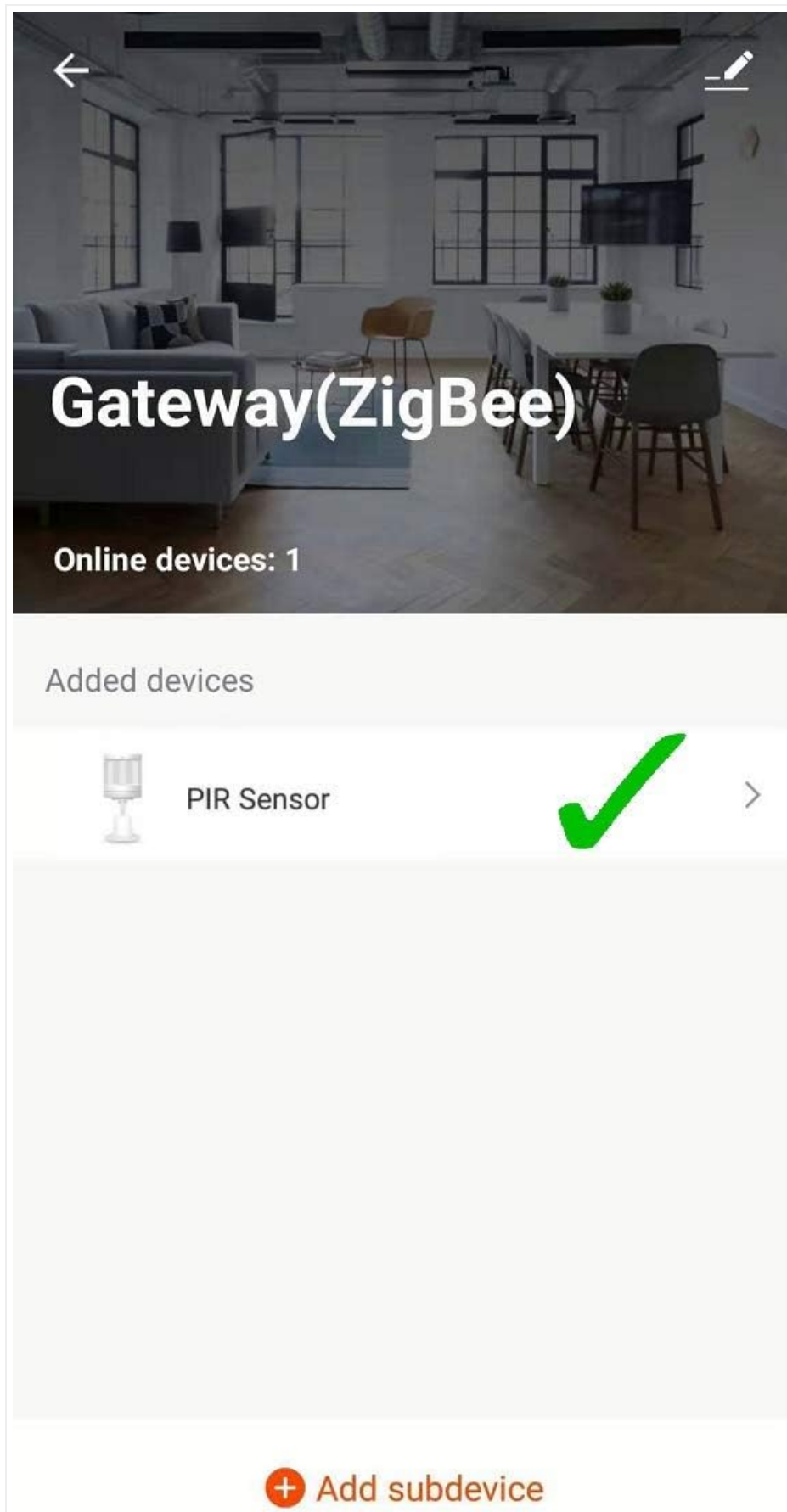


Image 4.2: Example of a pairing mode screen in a smart home application.

3. Within your Zigbee hub's application, initiate the device search or 'add subdevice' function.
4. The hub should discover the SM301Z sensor. Once detected, follow the on-screen prompts in your app to complete the pairing process.



## Search device

1 devices have been successfully added



PIR

DONE

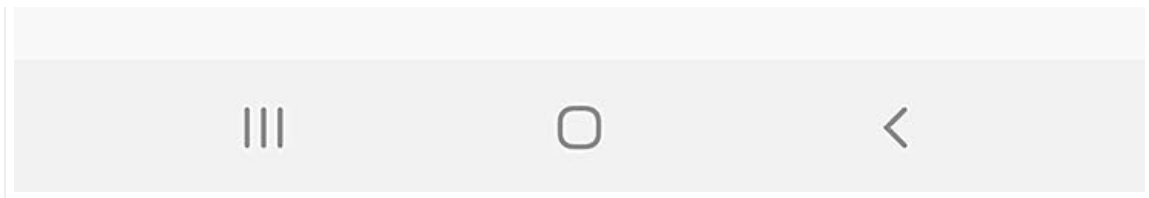


Image 4.3: Confirmation of successful device addition in a smart home application.

#### 4.4. Mounting the Sensor

The SM301Z sensor is designed for wall mounting. Choose a location where motion detection is desired, keeping in mind the 3-meter maximum range.

1. Ensure the mounting surface is clean, dry, and smooth.
2. Peel off the protective film from one side of the provided mounting adhesive.
3. Attach the adhesive firmly to the back of the sensor.
4. Peel off the remaining protective film from the adhesive and press the sensor firmly onto the desired wall location for at least 30 seconds.



Image 4.4: Steps for battery installation and applying the mounting adhesive.

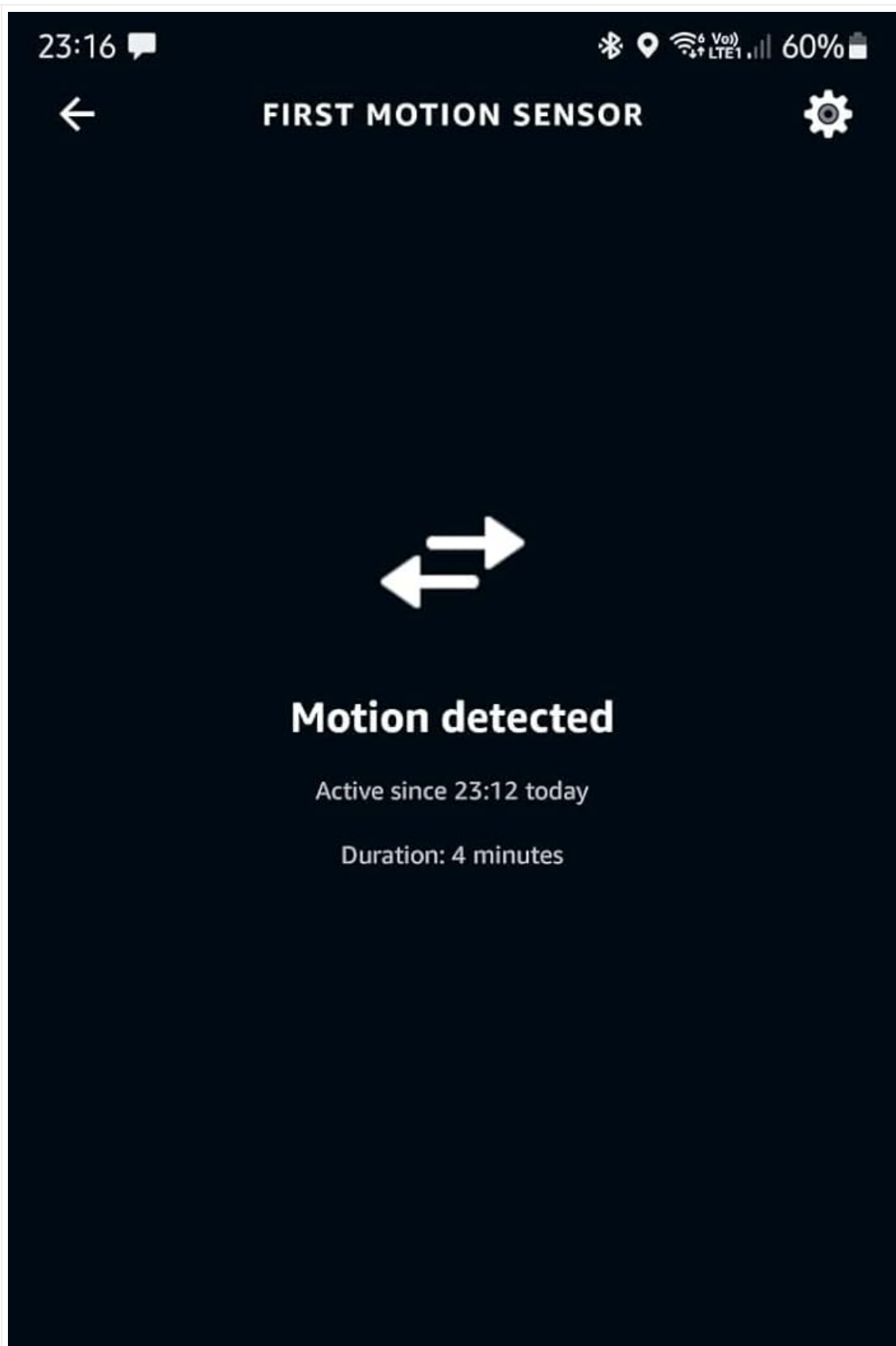
## 5. OPERATING INSTRUCTIONS

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Once successfully paired and mounted, the SAMOTECH SM301Z motion sensor will detect movement within its 3-meter range and communicate this information to your Zigbee hub.

### 5.1. Motion Detection

The sensor uses Passive Infrared (PIR) technology to detect changes in infrared radiation caused by moving objects, such as people. When motion is detected, the sensor sends a signal to your Zigbee hub.



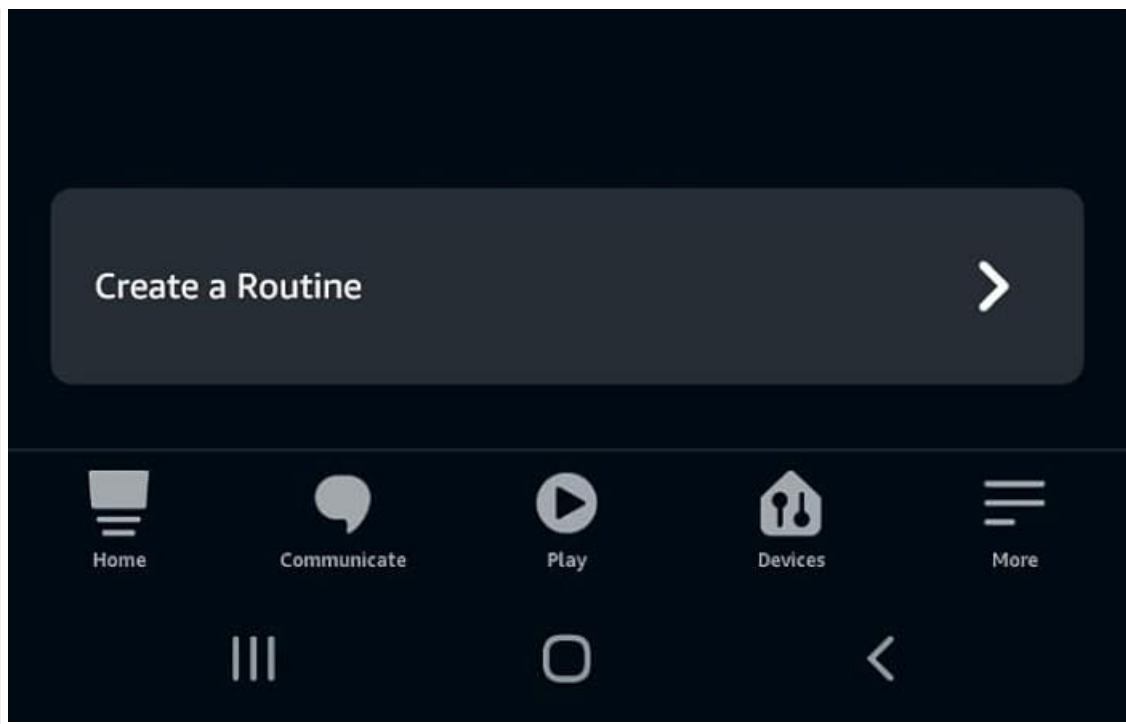


Image 5.1: Example of motion detection status in a smart home application.

## 5.2. Creating Smart Routines

Leverage your Zigbee hub's capabilities to create automated routines based on motion detection:

- **Lighting Automation:** Configure lights to turn on when motion is detected in a room and turn off after a set period of no motion.
- **Security Alerts:** Receive notifications on your smartphone if motion is detected when you are away from home.
- **Energy Saving:** Automate devices to power down when no activity is detected.



Image 5.2: The SM301Z sensor can automate lighting based on motion detection.



## 6. MAINTENANCE

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### 6.1. Battery Replacement

The SM301Z sensor is designed for long battery life (3+ years). When the batteries are low, your Zigbee hub application may notify you. To replace the batteries:

1. Gently open the back cover of the motion sensor.
2. Remove the old AAA batteries.
3. Insert three new AAA batteries, ensuring correct polarity (+/-).
4. Close the back cover securely.
5. Dispose of old batteries according to local regulations.

## 7. TROUBLESHOOTING

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If you encounter issues with your SAMOTECH SM301Z motion sensor, refer to the following common problems and solutions:

- **Sensor not pairing with hub:**
  - Ensure your Zigbee hub is powered on and in pairing mode.
  - Verify the sensor's batteries are correctly installed and charged.
  - Perform a factory reset on the sensor by holding the RESET button for 5 seconds until the LED blinks, then attempt pairing again.
  - Ensure the sensor is within range of your Zigbee hub during pairing.
- **No motion detected or inconsistent detection:**
  - Check the sensor's placement. Ensure there are no obstructions blocking its field of view.
  - Verify the batteries are not depleted.
  - Confirm the sensor is still connected to your Zigbee hub in the app. If not, re-pair the device.
  - Avoid placing the sensor near heat sources (e.g., vents, direct sunlight) as these can cause false detections.
- **False motion detections:**
  - Review the sensor's placement to ensure it's not detecting pets, curtains moving in a draft, or reflections.
  - Ensure the sensor is not exposed to direct sunlight or strong drafts.

## 8. SAFETY INFORMATION

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Please read and follow these safety guidelines to ensure safe operation of your device:

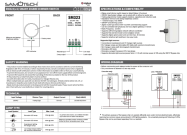
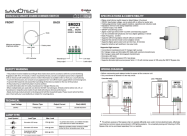
- This device is intended for indoor use only.
- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Keep the device away from water and other liquids.
- Do not attempt to disassemble or repair the device yourself. Contact support if service is required.
- Dispose of batteries properly according to local regulations.

## 9. WARRANTY AND SUPPORT

The SAMOTECH SM301Z motion sensor comes with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official SAMOTECH website.

For technical support, troubleshooting assistance, or any questions regarding your product, please contact SAMOTECH customer service through their official channels.

### Related Documents - SM301Z

	<a href="#">Samotech SM323(v2) Smart Zigbee Dimmer Switch Installation and Operation Guide</a> Comprehensive guide for the Samotech SM323(v2) Smart Zigbee Dimmer Switch, covering specifications, wiring, pairing, brightness settings, and compatible light sources. Learn how to install and operate your Zigbee dimmer for optimal performance.
	<a href="#">Samotech SM323(v2) Smart Zigbee Dimmer Switch Installation and Operation Guide</a> Comprehensive guide for the Samotech SM323(v2) Smart Zigbee Dimmer Switch, covering specifications, wiring, pairing, brightness settings, and compatible light sources. Learn how to install and operate your Zigbee dimmer for optimal performance.

### Documents - SAMOTECH – SM301Z



#### [\[pdf\]](#) User Manual Specifications

Administrator PC 20181030XZLL Zigbee Motion Sensor SM301Z PIR Manual samotech co uk 2019 09  
SAMOTECH What is included sensor Battery AAA x 3 Adhesives Reset pin Note For any queries  
regarding using the Smart Life application use Feedback option Specification Product Model  
specifications AAA1 5V The Passive Infrared uses infrared sensors to detect human movements within  
range and sends an alert your phone when motion detected works in |||

Zigbee Motion Sensor **SM301Z** Description The Passive Infrared Motion sensor uses  
infrared sensors to detect human movements within the sensors range and sends an  
alert to your phone when motion is detected. The motion sensor works in both light  
and darkness, but it is not pet immune. The **SM301Z** sen...

lang:en score:34 filesize: 266.81 K page\_count: 4 document date: 2021-01-19