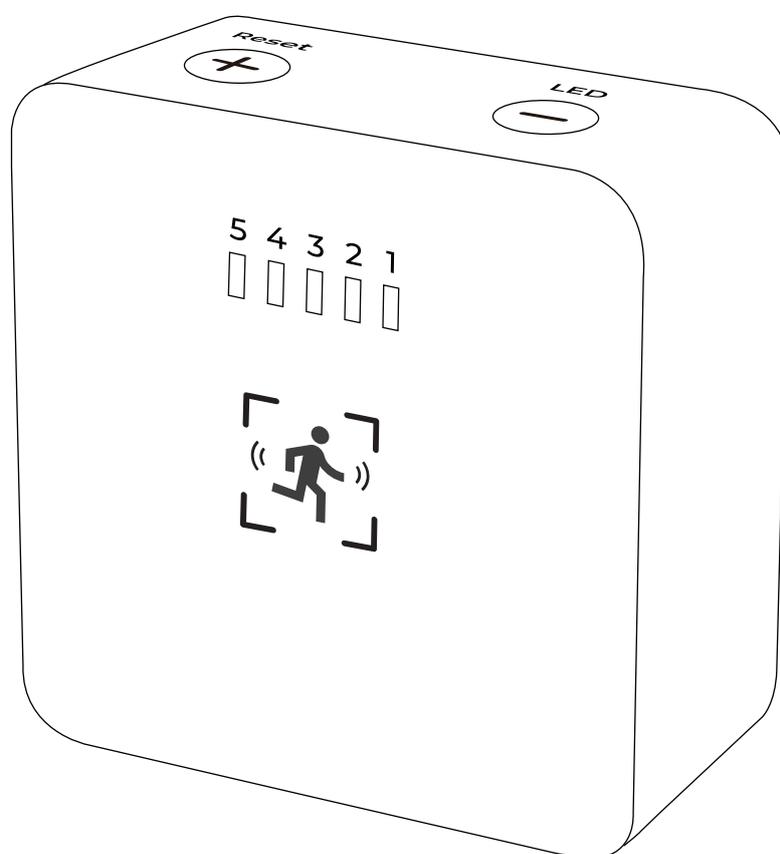


Smart Moiton Sensor R1

User Manual



THIRD REALITY

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Product Overview

The Smart Motion Sensor R1 is designed to detect the movement of objects with high sensitivity and accuracy. It can be seamlessly integrated with platforms such as Amazon Alexa, SmartThings, Hubitat, Home Assistant, and the Third Reality via the Zigbee protocol. This enables the creation of personalized routines triggered by motion detection, such as turning on lights or sending security notifications. Additionally, the sensor features an adjustable sensitivity setting to tailor its performance to your specific needs.

Button functions

	Function	Procedure
Reset (+)	Reset Indication	Press and hold for 10 seconds
	Enhance sensitivity	Click once
LED (-)	En/Disable motion detect light	Press and hold for 3 seconds
	Decrease sensitivity	Click once

LED Status

Operation	Description
Factory Reset	The LED is illuminated.
Pairing	The LED flashes rapidly .
Motion detected	When the device is triggered, the indicator light for the current sensitivity level will illuminate for 1 second.
Offline	The LED flashes once every 3 seconds.
Low Battery	The LED flashes twice every 5 seconds.

*The sensitivity indicator light will be reused with the status indicator light.

Setup

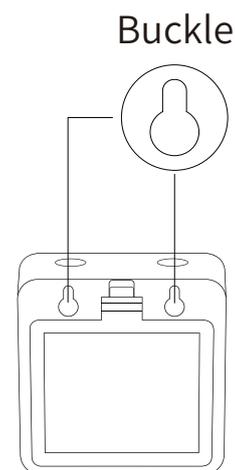
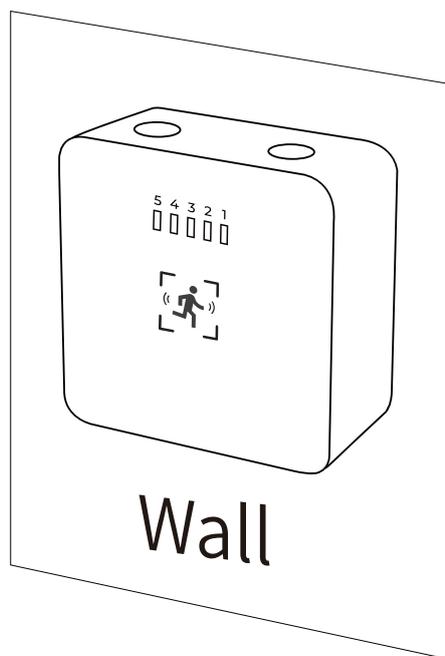
1. Open the battery cover on the device and remove the insulation strip to power the device.
2. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
3. Follow the instructions on the platform to add the device.

Compatible Platforms

Platform	Requirement
Amazon	Echo with built-in Zigbee hub
SmartThings	2015/2018 models, Station
HomeAssistant	ZHA and Z2M with Zigbee dongle
Hubitat	With Zigbee hub
ThirdReality	Smart Hub/Bridge
Homey	Bridge/Pro
Aeotec	Aeotec Hub

Installation

The product features an anti-slip design, allowing it to be placed directly on a table or mounted on the wall using screws.



① Vertically placed on table

② Hang on the wall

Troubleshooting

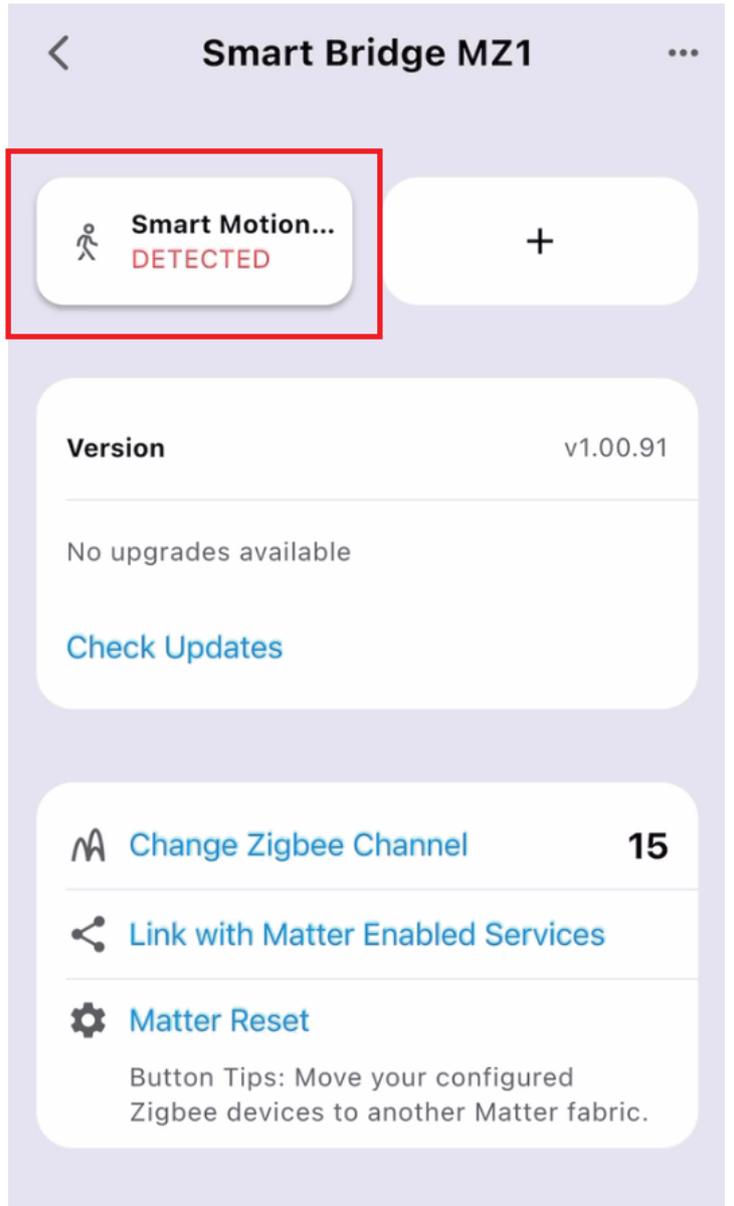
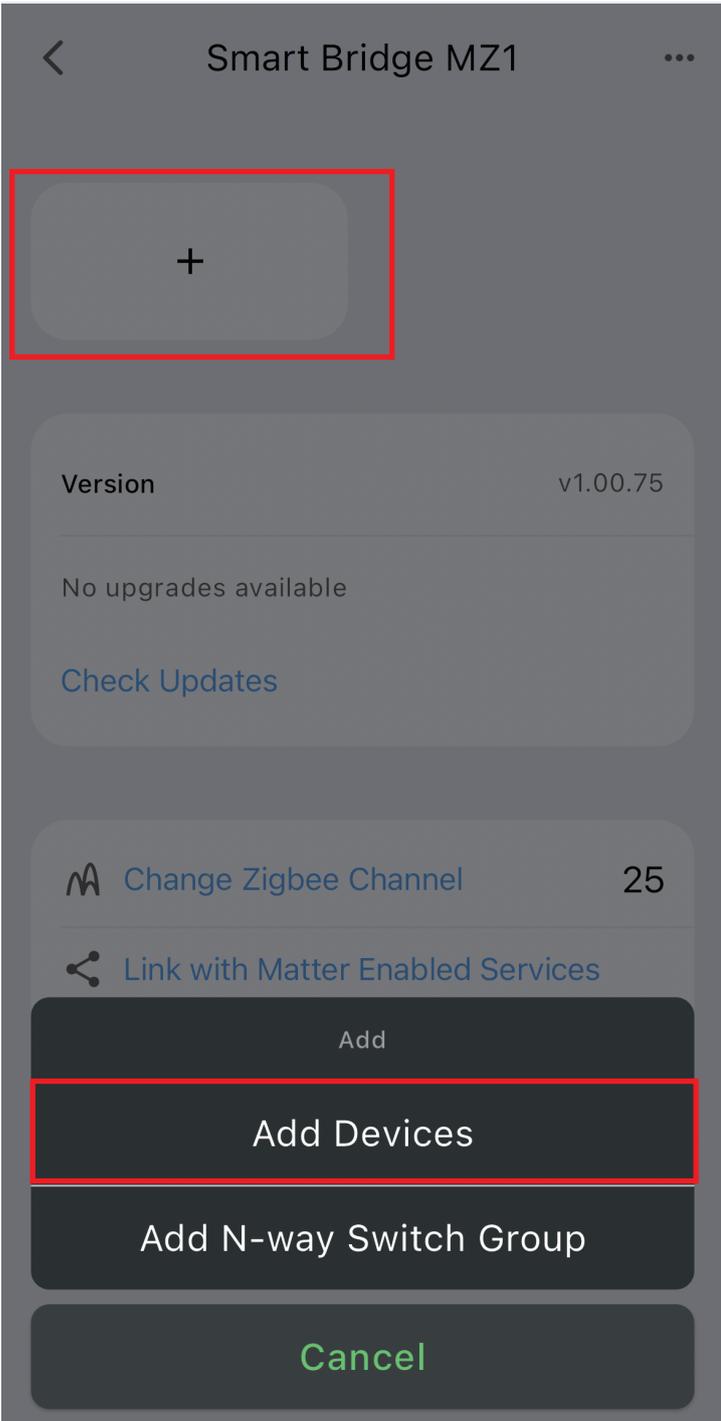
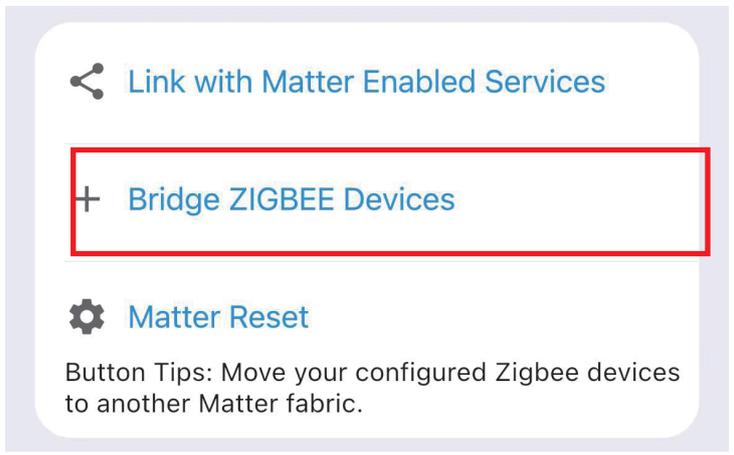
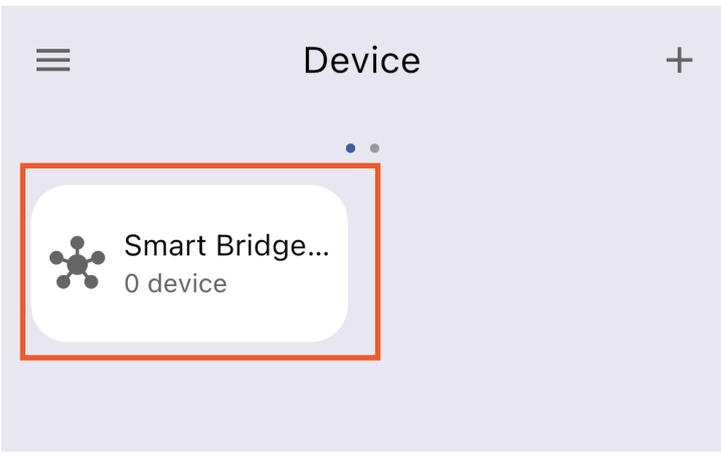
Optimize Installation Location

Avoid Direct Metal Surface Installation, Place a non-metallic insulating layer (e.g., plastic or rubber pad, $\geq 5\text{mm}$ thick) between the radar and the metal surface.

Setup with Smart Bridge MZ1

The Smart Bridge (sold separately) enables your Zigbee device to become Matter-compatible, allowing seamless integration with major Matter ecosystems like Apple Home, Google Home, Amazon Alexa, Samsung SmartThings, and Home Assistant. By setting up your motion sensor with the Smart Bridge, it transforms into a Matter compatible smart motion sensor, enabling local control through Matter. Third Reality also offers the 3R-Installer APP, which lets you configure Zigbee sensor attributes such as default-on behavior and perform firmware updates.

1. Ensure your bridge is already set up within your smart home system.
2. Open the battery cover on the device and remove the insulation strip to power the device.
3. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
4. Press the pinhole button on the bridge to activate Zigbee pairing mode. The Zigbee blue LED should start blinking.
5. The sensor will pair with the bridge, and a new device will appear in your smart home app, such as Google Home or Alexa.
6. Optionally, you can install the 3R-Installer APP and use the multi-admin feature in your smart home app to share permissions with the 3R-Installer APP.



Smart Motion Sensor R1


DETECTED

Battery 94%

Version v1.00.05

No upgrades available

[Check Updates](#)

 [Change Zigbee Channel](#) 25

 [Link with Matter Enabled Services](#)

 [Matter Reset](#)

Button Tips: Move your configured Zigbee devices to another Matter fabric.

Link with Manual Setup Code or Scan the QR Code

Effective duration: 2 minutes 54 seconds

1324-192-6558 

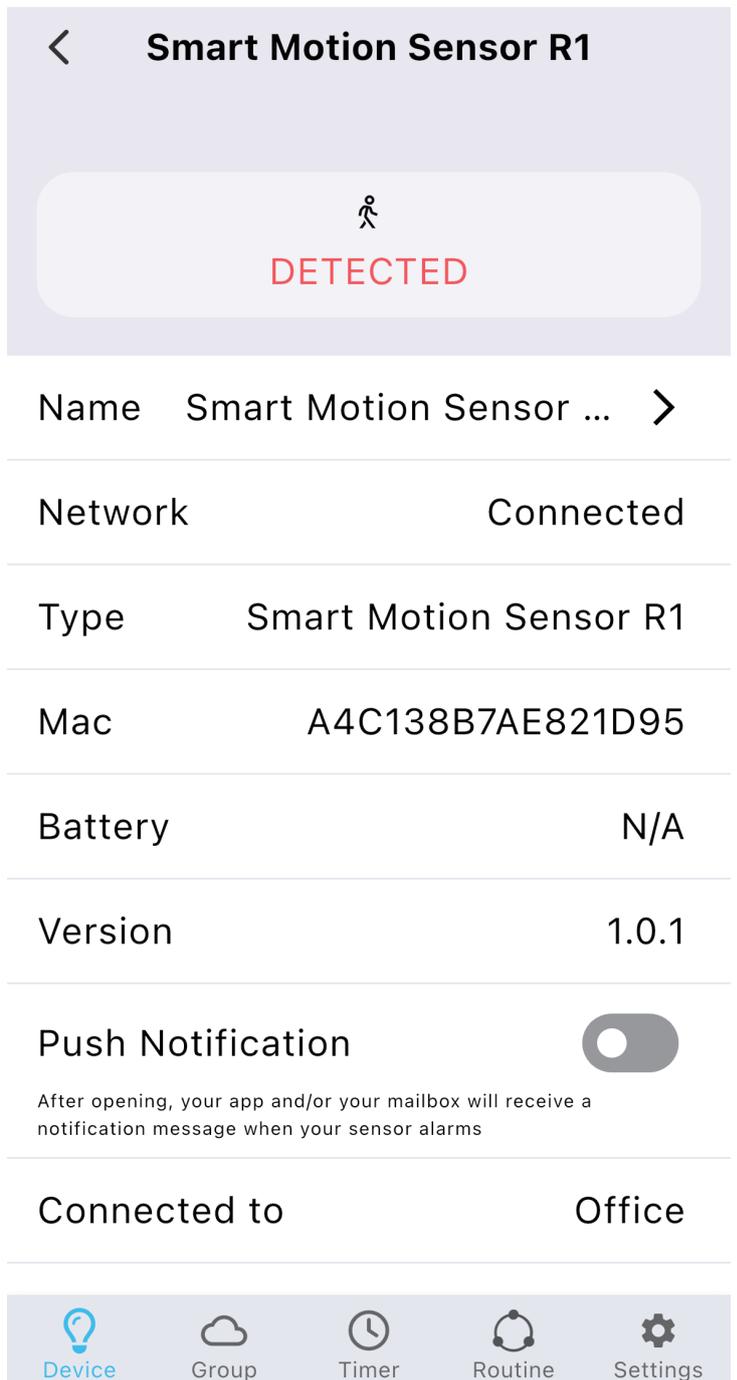
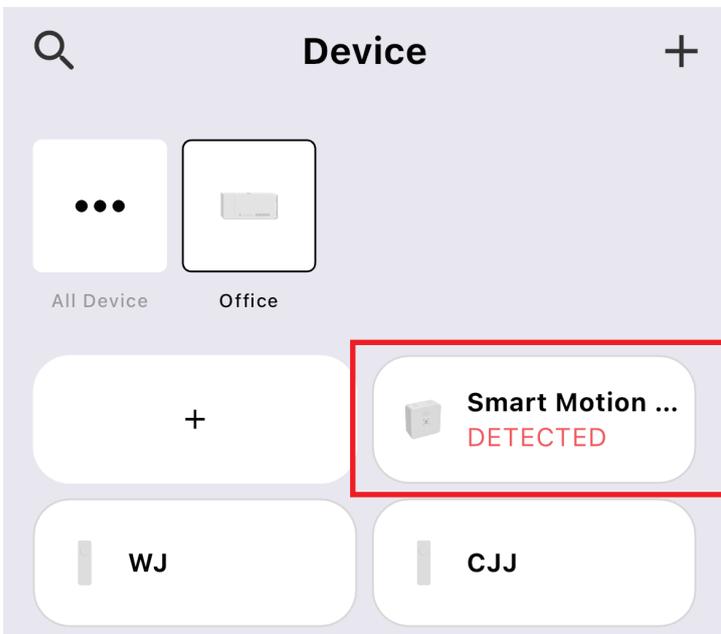
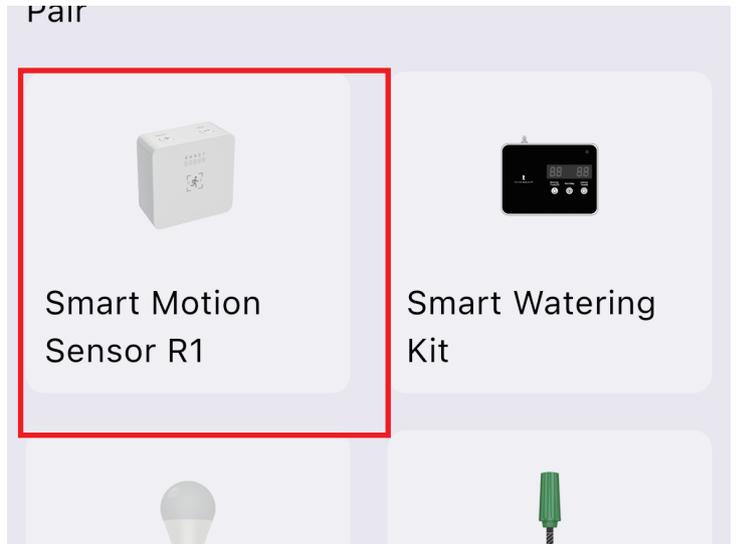
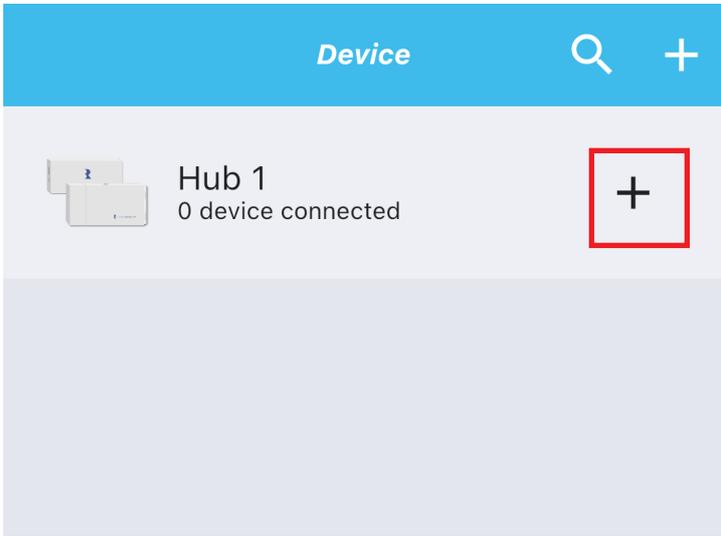


[Done](#)

Setup with Third Reality Hub and SKILL

The Third Reality Hub (sold separately) allows you to control your device remotely via the Third Reality APP, making it a great option for smart home beginners or those without a system from major providers. Additionally, the Third Reality Cloud supports SKILL integration with Google Home or Amazon Alexa, enabling you to connect your device to these platforms. However, due to the potential for slow and unreliable Cloud-to-Cloud connections, we recommend using the Bridge solution if Google Home or Alexa is your primary smart home platform.

1. Ensure your hub is properly set up with Third Reality App.
2. Open the battery cover on the device and remove the insulation strip to power the device.
3. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
4. Open the Third Reality APP, press the “+” icon next to the hub, and select “Quick Pair.”
5. The sensor will pair with your hub and appear in the Third Reality APP.
6. Optionally, you can enable the Third Reality SKILL in either the Alexa or Google Home app to enable Cloud-to-Cloud communication.



Setup with Compatible Third-Party Zigbee Hubs

Third Reality supports integration with various open Zigbee platforms, including Amazon Echo with built-in Zigbee, Samsung SmartThings, Home Assistant (with ZHA or Z2M), Homey and Hubitat. If you own any of these devices, you can pair the smart motion sensor directly without the need for an additional bridge or hub.

1. Ensure your Zigbee Hub is already set up within your smart home system.
2. Open the battery cover on the device and remove the insulation strip to power the device.
3. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
4. Open your smart home app and follow the on-screen instructions to begin the Zigbee pairing process.
5. The motion sensor will pair with the Zigbee hub.
6. You can now use your smart home app to create routines.

Pairing with SmartThings

App: SmartThings App

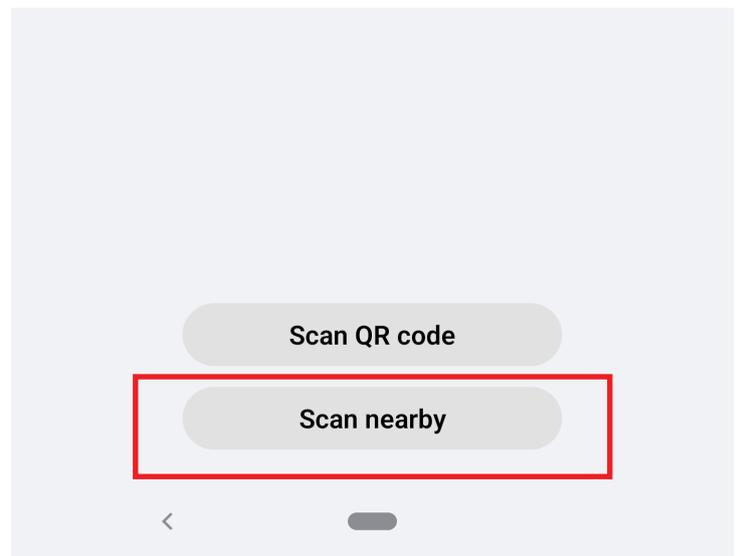
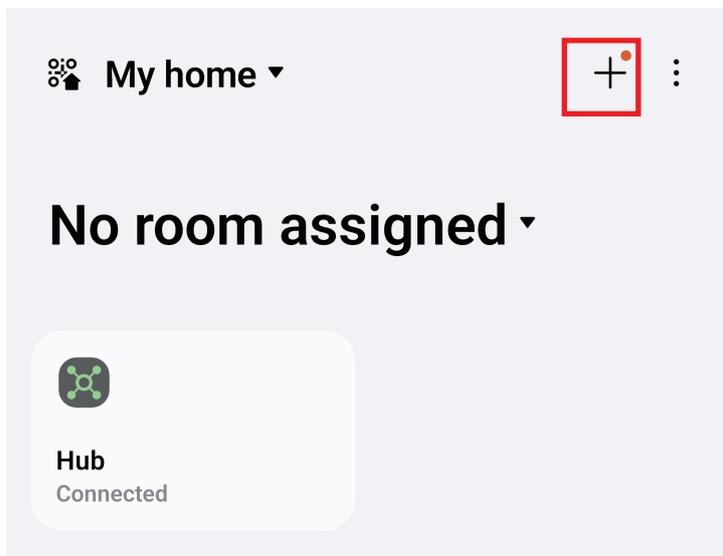
Devices: SmartThings Hub 2nd Gen(2015) and 3rd Gen(2018), Aeotec Smart Home Hub.



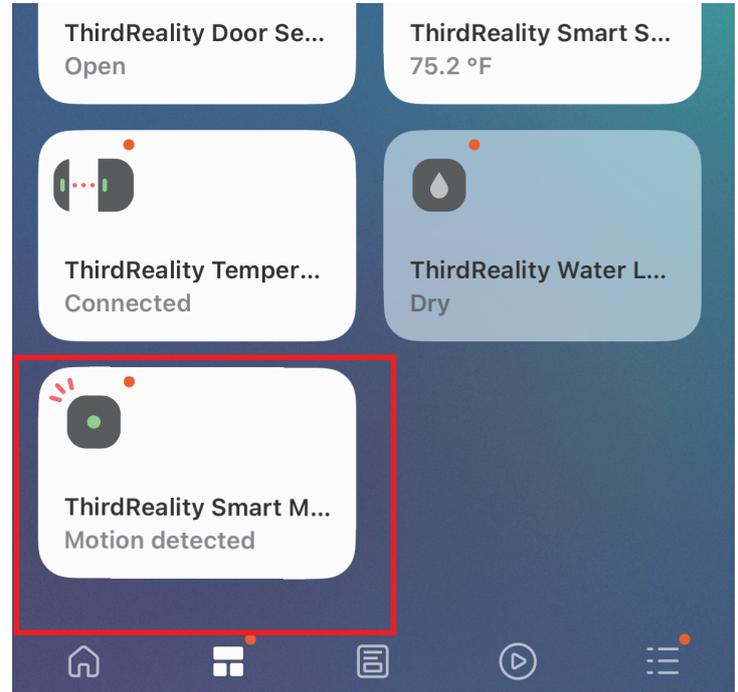
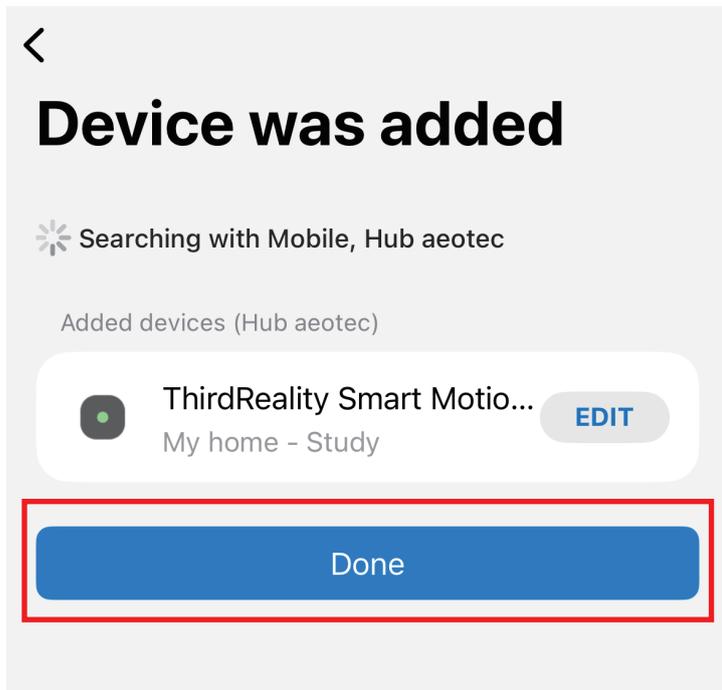
Pairing steps:

1. Before pairing, check for updates to make sure the SmartThings Hub firmware is up to date.
2. Add SmartThings drivers for ThirdReality Motion Sensor
 - Open this link in your PC browser. Log in your SmartThings Account.
<https://bestow-regional.api.smartthings.com/invite/adMKr50EXzj9>
 - Click "Enroll" -- "Available Drivers" -- "Install" to install the device driver.

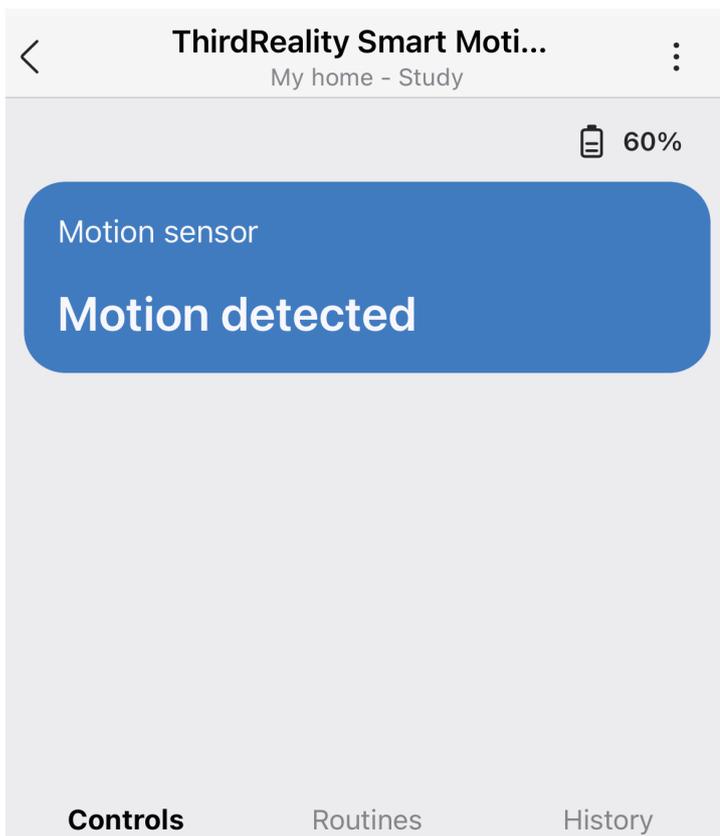
3. Open the battery cover on the device and remove the insulation strip to power the device.
4. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
5. Open your SmartThings App, tap “+” on the up right corner to ”Add device” and then tap “Scan nearby”.



6. The motion sensor will be added to your SmartThings hub in a few seconds.



7. Create routines to control connected devices.



Pairing with Amazon Alexa

App: Amazon Alexa

Devices: Echo speakers with built-in Zigbee hub, Echo 4th Gen, Echo Plus 1st & 2nd Gen, Echo Studio



Pairing steps:

1. Ask Alexa to check for updates before pairing.
2. Open the battery cover on the device and remove the insulation strip to power the device.
3. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
4. Tap "+" in the Alexa App, choose "Other" and "Zigbee" to add device, the sensor will be added.
5. You can create routines with the device.

 **All Devices** 

 **Tina's Echo**
Online

 **Alexa on This Phone**
Online

Add Device
Echo, Smart Home and Accessories

Add Group
Create rooms, device groups and larger areas

Combine speakers
Set up multi-room music, a home cinema or a stereo pair.

 **Smoke and CO Detector**

 **Soap Dispenser**

 **Water Heater**

 **Water Leak Detector**

 **Other** 

 Home  **Devices**  More

Connect your Zigbee device to Alexa

- 1 Make sure your device is within 30 feet of your [compatible Echo](#) or hub.
- 2 Put your device into pairing mode by powering it off and on again.
- 3 Press Discover Devices

When you discover devices, Alexa may connect additional compatible devices in your home. You can learn about or delete these devices in device settings.

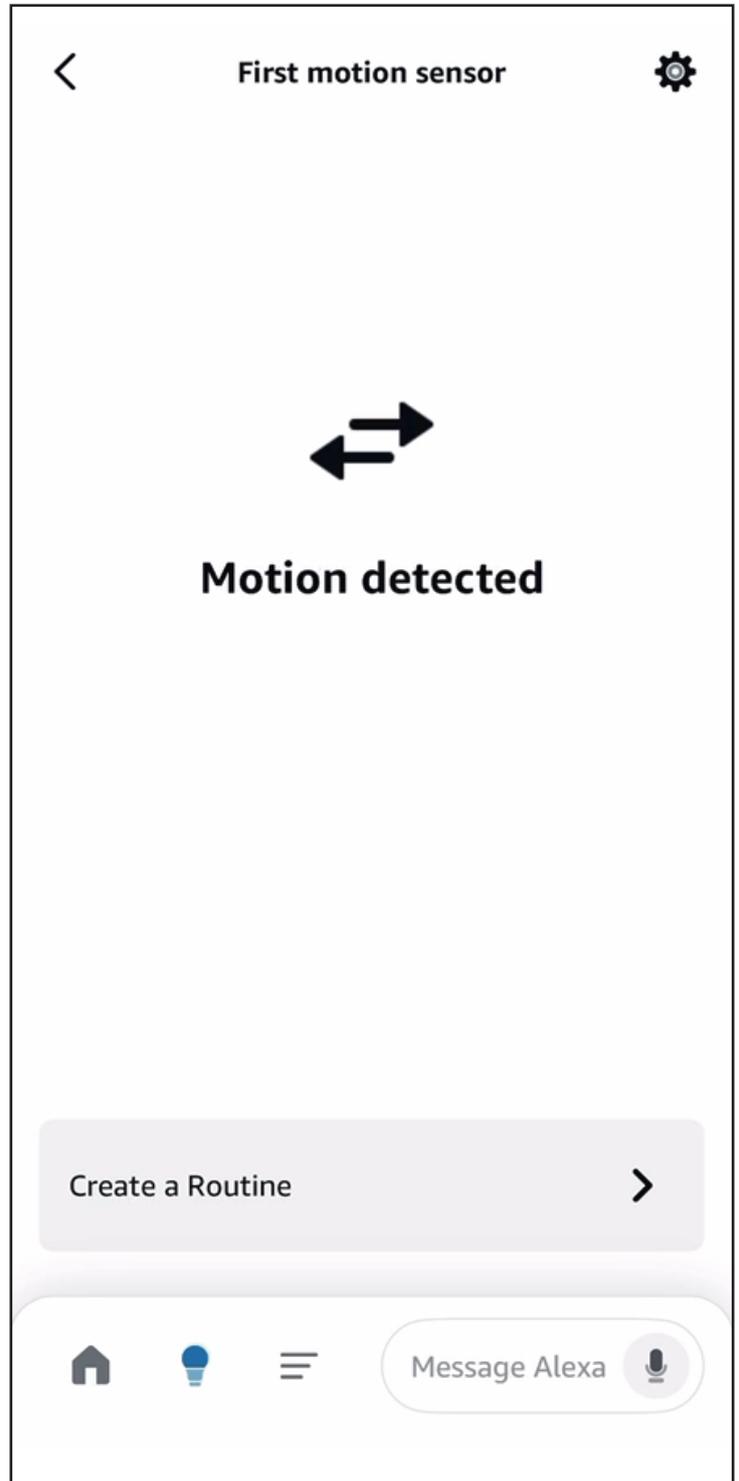
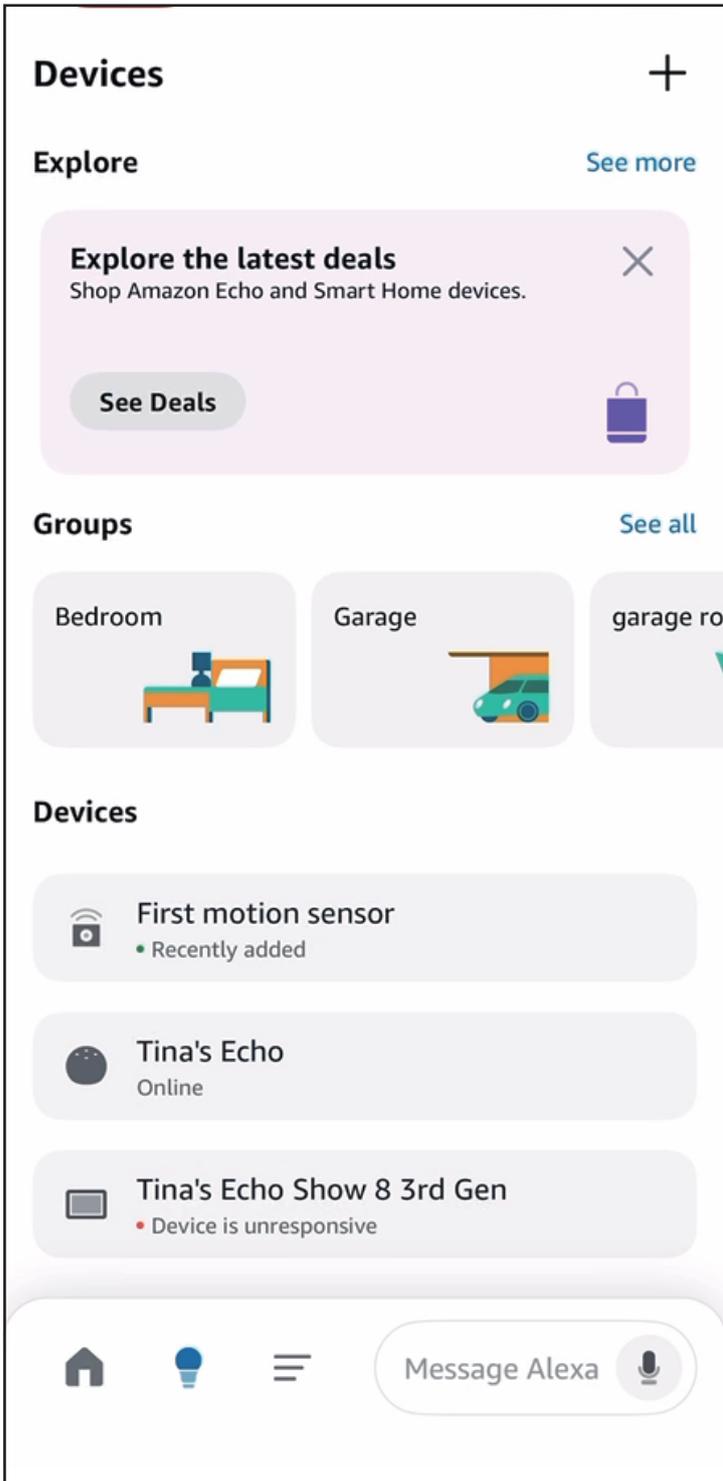
Discover Devices

First motion sensor added to Living room

Now you can refer to this device using room name and device type instead of remembering the device name.



First motion sensor is set up and ready to use



Pairing with Hubitat

Website: <http://find.hubitat.com/>



Pairing steps:

1. Open the battery cover on the device and remove the insulation strip to power the device.
2. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
3. Visit your Hubitat Elevation hub device page from your web browser, select the Devices menu item from the sidebar, then select Discover Devices in the upper right.
4. Click Start Zigbee Pairing button after you select a Zigbee device type, the Start Zigbee Pairing button will put the hub in Zigbee pairing mode for 60 seconds.
5. Pairing is completed. Change the Generic Zigbee Contact Sensor(-no temp) to Generic Zigbee Motion Sensor (no temp).
6. Tap Apps, and Create New Basic Rules.

Hubitat **Devices** hubitat-c7

Compatible device list Clear Search... **+ Add device**

Disable	Label (Name)	Type	Room	Source	DNI	Status	Last Activity	
<input type="checkbox"/>	1 <small>(Advanced Zigbee CT Bulb)</small>	Advanced Zigbee CT Bulb		System	2EA3 B40ECFD298B00000		8/27/2024 10:42:35	
<input checked="" type="checkbox"/>	+++ <small>(Device)</small>	Device	huan	System	1315 282C028FFFE90901			
<input type="checkbox"/>	729ms <small>(Generic Zigbee Motion Sensor (no temp))</small>	Generic Zigbee Motion Sensor (no temp)		System	8439 282C028FFFE6379		7/29/2024 15:44:55	60
<input type="checkbox"/>	Advanced Zigbee CT Bulb	Advanced Zigbee CT Bulb		System	1AED B40ECFD32AAD0000		8/27/2024 10:42:28	
<input type="checkbox"/>	del <small>(Third Reality Smart Button)</small>	Third Reality Smart Button		System	5A05 282C028FFFE38F45		8/06/2024 13:42:54	100
<input type="checkbox"/>	Plant Watering System	Generic Zigbee Switch		System	4F31 282C028FFFE900C0		8/27/2024 10:13:02	
<input type="checkbox"/>	Smart Soil Moisture Sensor <small>(Device)</small>	Generic Zigbee Temperature/Humidity Sensor		System	952B A4C138EEDB829E73			

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Hubitat **Add device** hubitat-c7

Find by device type
Bulbs, dimmers, locks, outlets, switches... ▶

Find by brand
Aeotec, Bosch, Centralite, Dome, Ecolink... ▶

Add device manually:

Zigbee

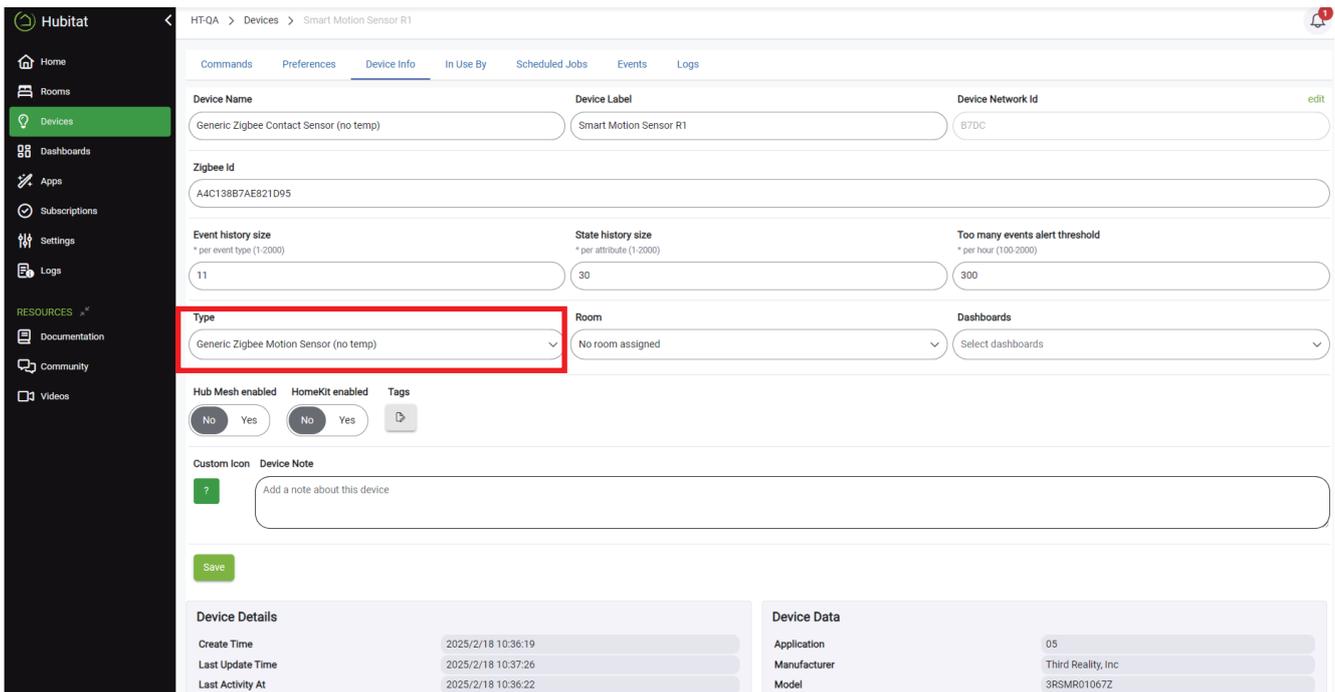
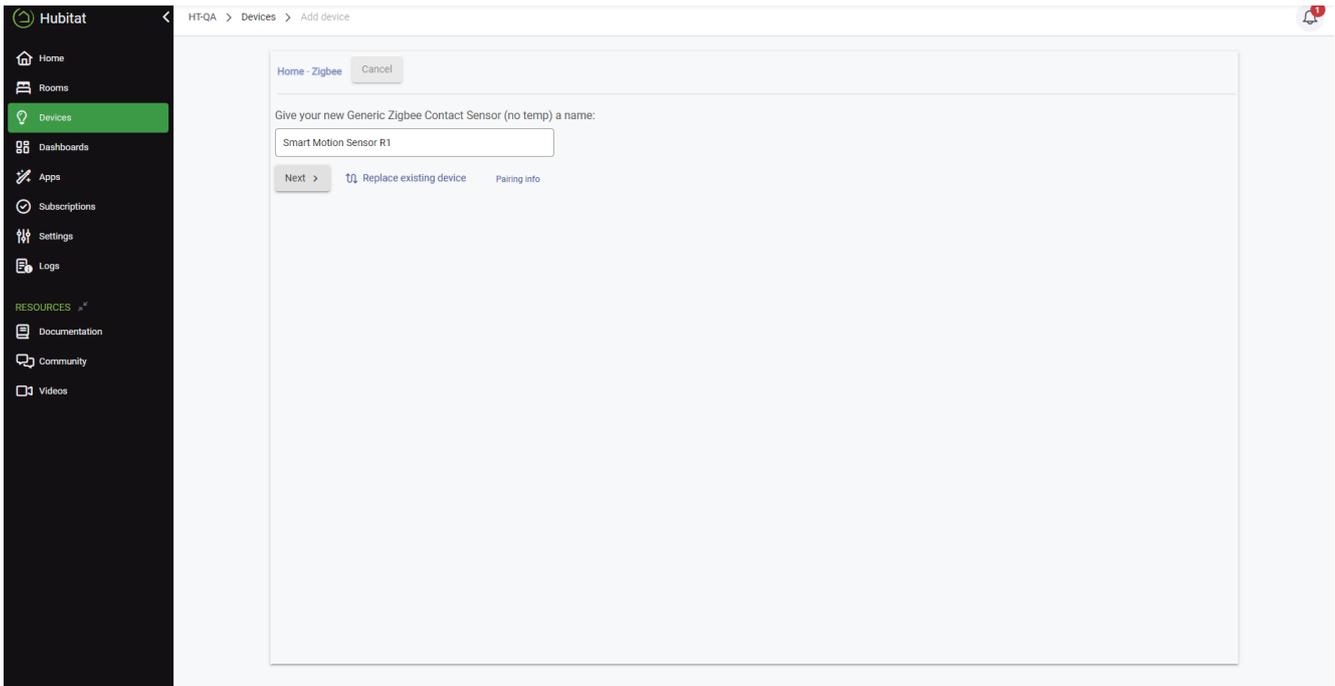
Z-Wave

Matter

Iris V1 Zigbee

</> Virtual

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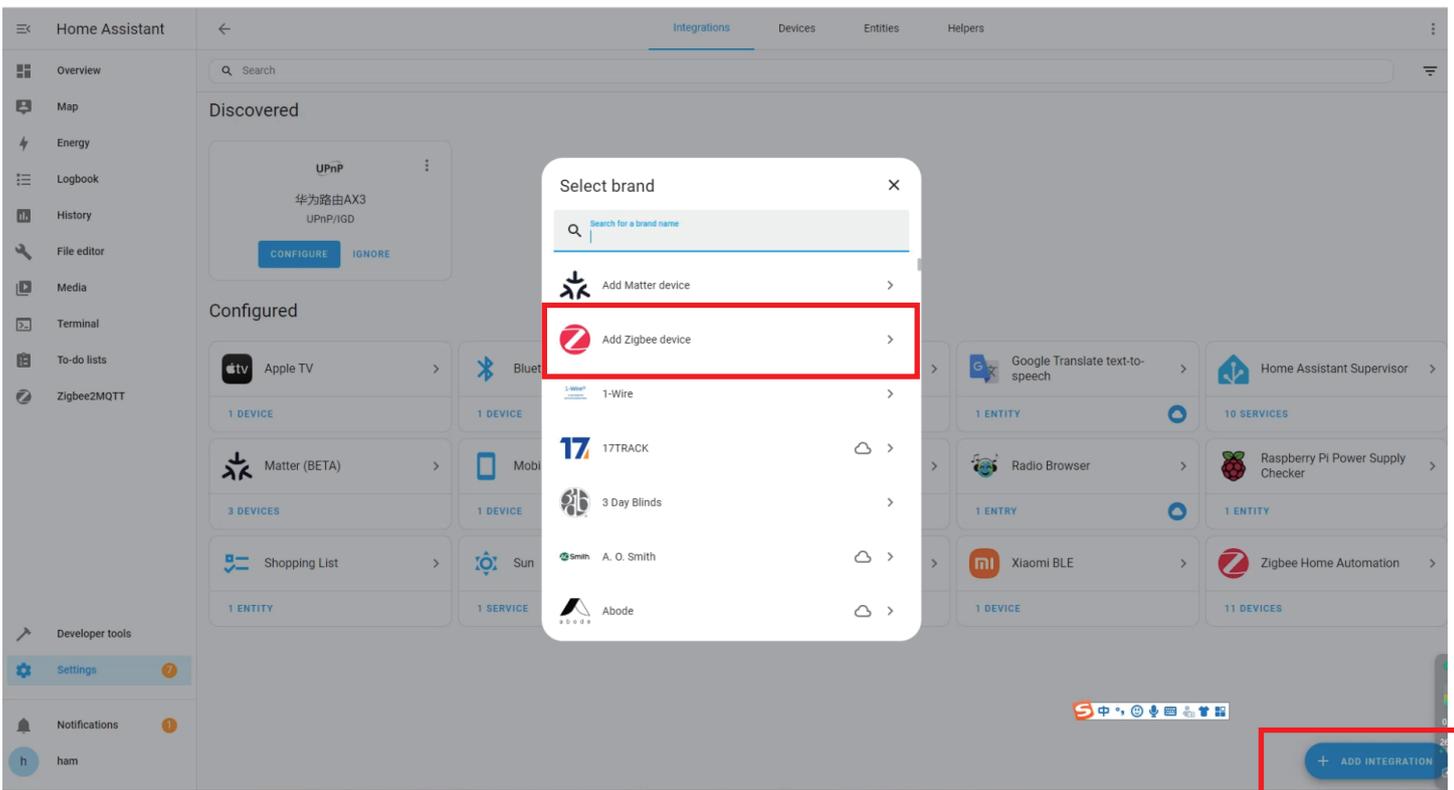
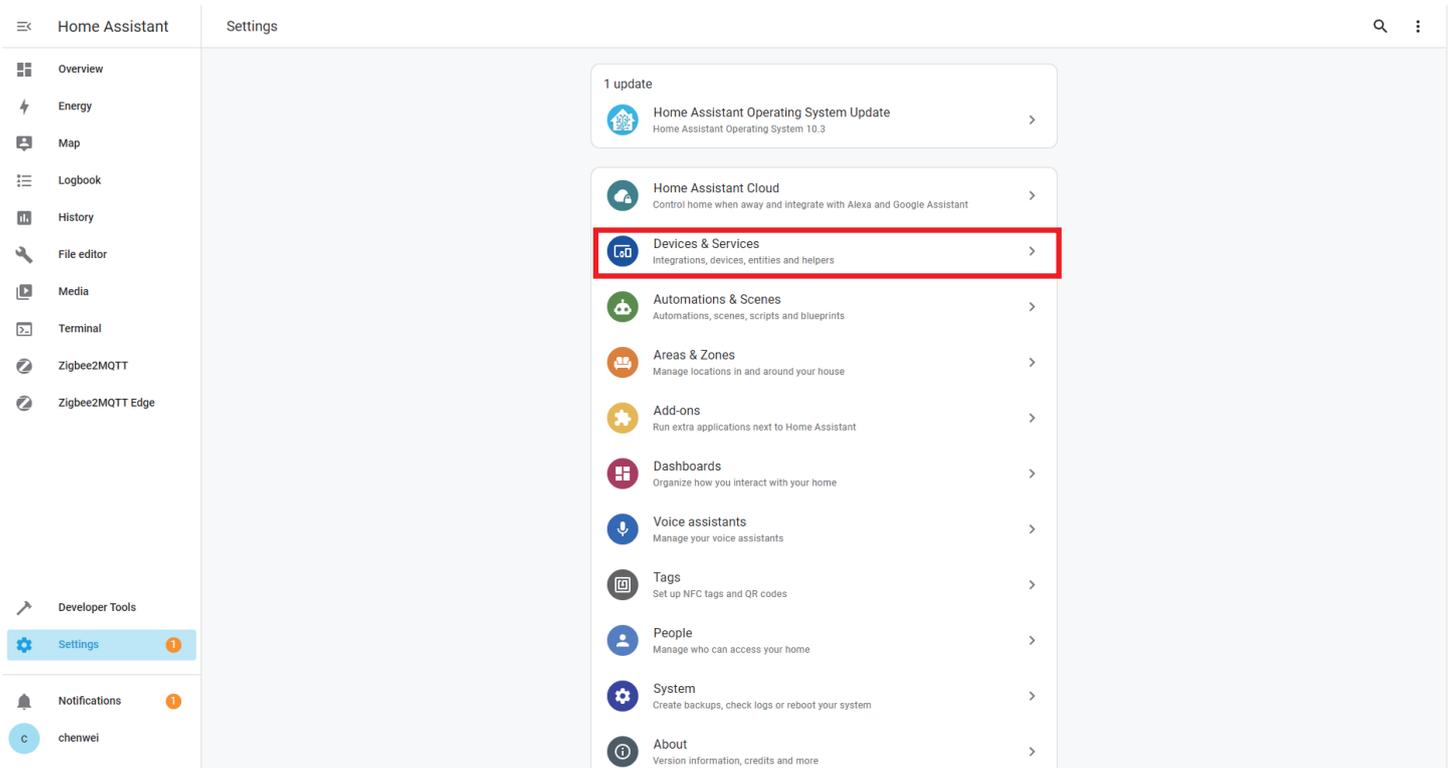
Pairing With Home Assistant

Device: Zigbee dongle



Zigbee Home Automation

1. Open the battery cover on the device and remove the insulation strip to power the device.
2. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
3. In Zigbee Home Automation, go to “Configuration” page, click “integration”.
4. Then click the “Devices” on the Zigbee item, then click “Add Devices”.
5. Pairing completed.
6. Back to “Devices” page to find the sensor added.
7. Click “+” belongs to Automation and add trigger and actions.



Home Assistant

Integrations **Devices** Entities Helpers

Filters Search 85 devices Group by Sort by Device

Device	Manufacturer	Model	Area	Integration	Battery
_TZE200_l0cansqn TS0601	_TZE200_l0cansqn	TS0601	-	Zigbee Home Automation	-
BITUO TECHNIK SDM02X	BITUO TECHNIK	SDM02X	-	Zigbee Home Automation	-
blue button	Third Reality, Inc	3RSB22BZ	Living Room	Zigbee Home Automation	-
bulb1	Thirdeality	3RCB01057Z	Living Room	Zigbee Home Automation	-
Bulb2	Thirdeality	3RCB01057Z	Living Room	Zigbee Home Automation	-
Bulb3	Thirdeality	3RCB01057Z	Living Room	Zigbee Home Automation	-
Bulb4	Thirdeality	3RCB01057Z	Living Room	Zigbee Home Automation	-
button	Third Reality, Inc	3RSB22BZ	Living Room	Zigbee Home Automation	-
Dummy night light	Third Reality, Inc	3RSNL02043Z	office	Zigbee Home Automation	-
Dummy night light2	Third Reality, Inc	3RSNL02043Z	office	Zigbee Home Automation	-
Garage Door Tilt Sensor	Third Reality, Inc	3RDT01056Z	-	Zigbee Home Automation	100%
red button	Third Reality, Inc	3RSB22BZ	Living Room	Zigbee Home Automation	-
Silicon Labs EZSP	Silicon Labs	EZSP	-	Zigbee Home Automation	-
Smart Motion Sensor R1	Third Reality, Inc	3RSMR01067Z	-	Zigbee Home Automation	-

[+ ADD DEVICE](#)

Home Assistant

Smart Motion Sensor R1

90% zigbee

Device info

3RSMR01067Z
by Third Reality, Inc

Zigbee info ▼

- Zigbee Home Automation >

[RECONFIGURE](#) ⋮

Sensors

Motion Detected

[ADD TO DASHBOARD](#)

Logbook

January 16, 2025

- Smart Motion Sensor R1 Motion detected motion
11:09:53 AM - 23 seconds ago
- Smart Motion Sensor R1 Motion cleared (no motion detected)
11:09:53 AM - 23 seconds ago
- Smart Motion Sensor R1 Motion detected motion
10:03:11 AM - 1 hour ago
- Smart Motion Sensor R1 Firmware turned off
10:03:11 AM - 1 hour ago
- Smart Motion Sensor R1 Motion became unavailable

Configuration

Firmware Up-to-date

[ADD TO DASHBOARD](#)

Diagnostic

Battery 90%

[+2 entities not shown](#)

[ADD TO DASHBOARD](#)

Automations

No automations have been added using this device yet. You can add one by clicking the + button above.

Scenes

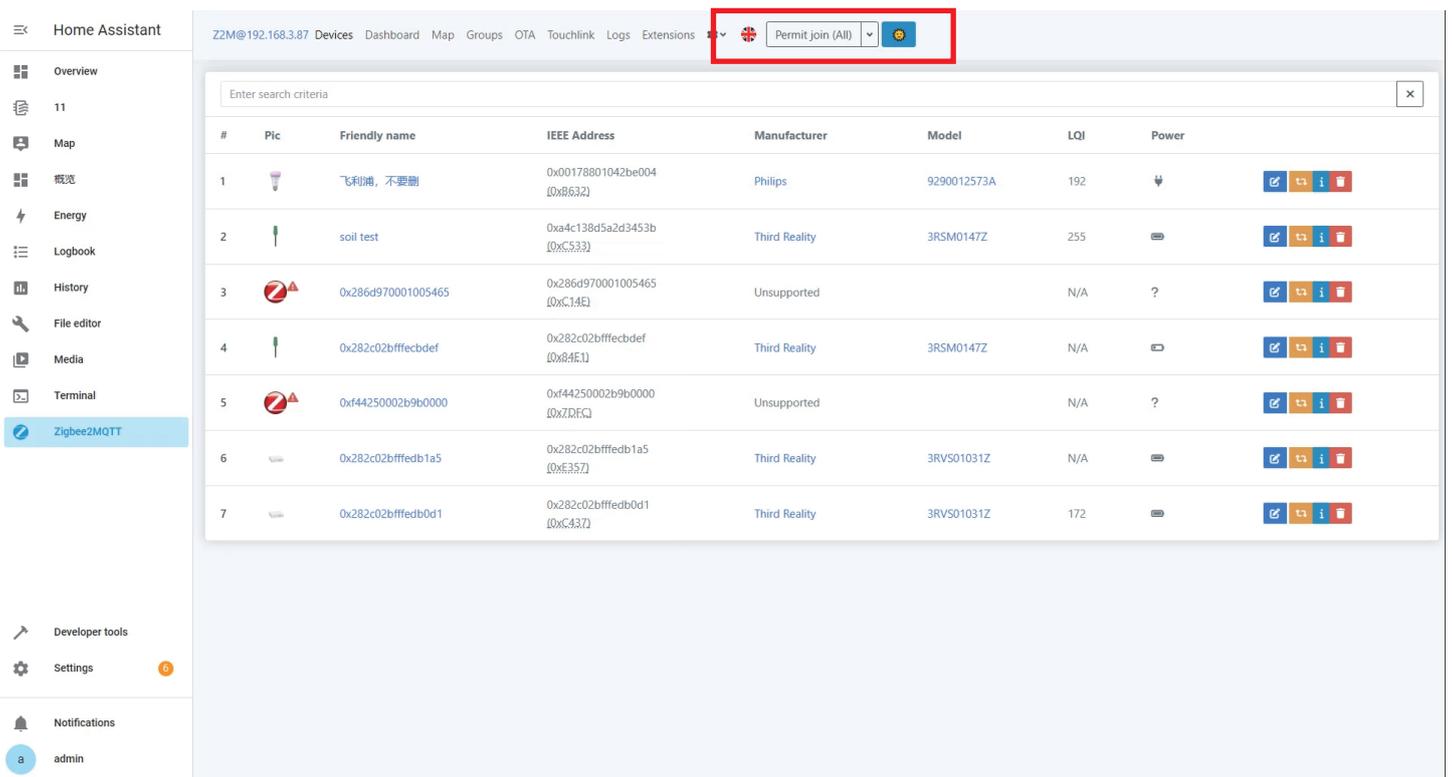
No scenes have been added using this device yet. You can add one by clicking the + button above.

Scripts

No scripts have been added using this device yet. You can add one by clicking the + button above.

Zigbee2MQTT

1. Open the battery cover on the device and remove the insulation strip to power the device.
2. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
3. Permit join to start Zigbee pairing in Zigbee2MQTT.
4. Pairing completed, the sensor will be displayed in the device list. Go to Settings page, create automation.



The screenshot shows the Home Assistant interface with the Zigbee2MQTT extension active. The left sidebar contains navigation options: Overview, 11, Map, 概观, Energy, Logbook, History, File editor, Media, Terminal, Zigbee2MQTT (highlighted), Developer tools, Settings (with a notification icon), and Notifications. The main content area displays a table of Zigbee devices. At the top of the main area, there is a 'Permit join (All)' button with a dropdown arrow, which is highlighted with a red box. Below the table, there are developer tools, settings, and notifications sections.

#	Pic	Friendly name	IEEE Address	Manufacturer	Model	LQI	Power	
1		飞利浦, 不要删	0x00178801042be004 (0x8632)	Philips	9290012573A	192		
2		soil test	0xa4c138d5a2d3453b (0xc533)	Third Reality	3RSM0147Z	255		
3		0x286d970001005465	0x286d970001005465 (0xc14e)	Unsupported		N/A	?	
4		0x282c02bfffecbdef	0x282c02bfffecbdef (0x84e1)	Third Reality	3RSM0147Z	N/A		
5		0xf44250002b9b0000	0xf44250002b9b0000 (0x7def)	Unsupported		N/A	?	
6		0x282c02bfffed1a5	0x282c02bfffed1a5 (0xe357)	Third Reality	3RV501031Z	N/A		
7		0x282c02bfffed0d1	0x282c02bfffed0d1 (0xc437)	Third Reality	3RV501031Z	172		

Home Assistant Z2M@192.168.3.87 Devices Dashboard Map Groups OTA Touchlink Logs Extensions Permit join (All)

Enter search criteria

#	Pic	Friendly name	IEEE Address	Manufacturer	Model	LQI	Power	
1		飞利浦, 不要删	0x00178801042be004 (0x8632)	Philips	9290012573A	192		
2		soil test	0xa4c138d5a2d3453b (0xc533)	Third Reality	3RSM0147Z	255		
3		0x286d970001005465	0x286d970001005465 (0xc14f)	Unsupported		N/A	?	
4		0x282c02bfffecbdef	0x282c02bfffecbdef (0x84f1)	Third Reality	3RSM0147Z	N/A		
5		0xf44250002b9b0000	0xf44250002b9b0000 (0x7d7c)	Unsupported		N/A	?	
6		0x282c02bfffed1a5	0x282c02bfffed1a5 (0xe357)	Third Reality	3RVS01031Z	N/A		
7		0x282c02bfffed0d1	0x282c02bfffed0d1 (0xc437)	Third Reality	3RVS01031Z	200		
8		0xa4c138b7ae821d95	0xa4c138b7ae821d95 (0xe33b)	Unsupported	3RSMR01067Z	N/A	?	

Developer tools Settings Notifications admin

Home Assistant Z2M@192.168.3.87 Devices Dashboard Map Groups OTA Touchlink Logs Extensions Permit join (All)

Oxa4c138b7ae821d95 ▾

About Exposes Bind Reporting Settings Settings (specific) State Clusters Scene Dev console

Friendly name [Oxa4c138b7ae821d95](#)

Description

Last seen N/A

Availability Disabled

Device type EndDevice

Zigbee Model 3RSMR01067Z

Zigbee Manufacturer Third Reality, Inc

Support status **Not supported (how_to_add_support)**

IEEE Address Oxa4c138b7ae821d95

Network address 0xe33b / 5,817,1

Firmware version v1.00.05

Power Battery ?

Interview completed True

Developer tools Settings Notifications admin

FCC Regulatory Conformance

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help important announcement.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Limited Warranty

For limited warranty, please visit

<https://3reality.com/faq-help-center/>.

For customer support, please contact us at

info@3reality.com or visit www.3reality.com.

For question on other platforms, visit for corresponding platform's application/support platforms.