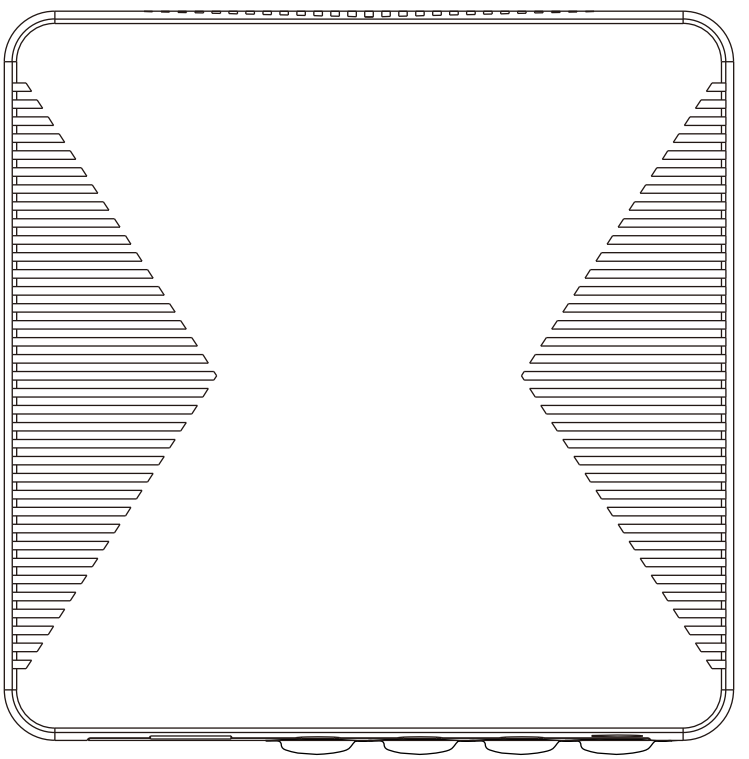


FDS315-H-Z Fall Detection Sensor

Quick Start Guide

Safety Handling

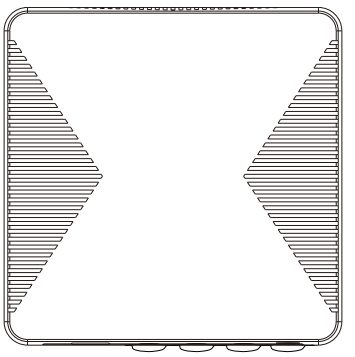
WARNING: Failure to follow these safety notices could result in fire, electric shock, other injuries, or damage to the Fall Detection Sensor and other property. Read all the safety notices below before using the Fall Detection Sensor.

- 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.
- Do not use harsh chemicals or strong detergents to clean it.
- Do not place it where infants and young children can touch, children should use under parental supervision.
- Do not touch it when powering on to ensure your safety.
- Indoor use only.

Technical Specifications

Wireless Connectivity	
ZigBee Profile	• ZigBee 3.0
RF Characteristics	• Operating frequency: 2.4GHz • Range outdoor: 100m (Open area)
Physical Specifications	
Operating Voltage	• Micro-USB
Detector	• 60GHz Radar
Detection Range	• Fall: 4*4m
Installation Requirements	• Height: 2~3 m • Angle: 45°
Operating environment	• Temperature: -10 ℃~+50 ℃ • Humidity: ≤ 90% non-condensing
Dimension	• 86(L) x 86(W) x 37(H) mm
Mounting Type	• Wall-mount or Ceiling-mount

1 Welcome



FDS315-H-Z Fall Detection Sensor can detect whether a person is in a dangerous posture, allowing you to be aware of the risk promptly. This version is specifically designed for bathrooms, with algorithms optimized for the bathroom environment. It is suitable for scenarios such as nursing homes, institutions, and home care.

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 dangerous posture detection (only works on single player), human presence detection, and activity location detection
- Adjustable detection range
- Configurable dangerous posture detection sensitivity
- Supports querying status history and displaying status duration
- Supports configuring toilet location information to improve detection accuracy in bathroom environments
- Supports ceiling mounting and wall mounting

2 Installaion

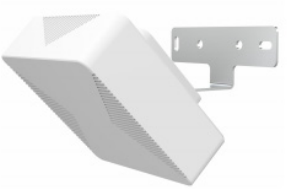
Note: This version of the device is designed for bathroom scenarios. If installed in locations other than a bathroom, it may lead to inaccurate measurements or false alarms. Please ensure this device is installed specifically in a bathroom setting.

1. Find a suitable installation environment, location, and method

Please refer to the first three chapters of the provided installation guide manual to confirm the device's installation environment, installation location, and installation method before proceeding with the actual installation (also consider the power supply location).

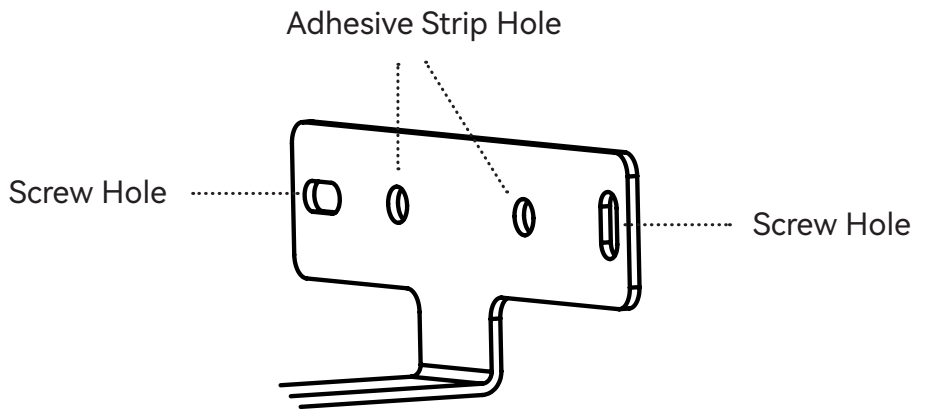
FDS315-H-Z

Installation Guide

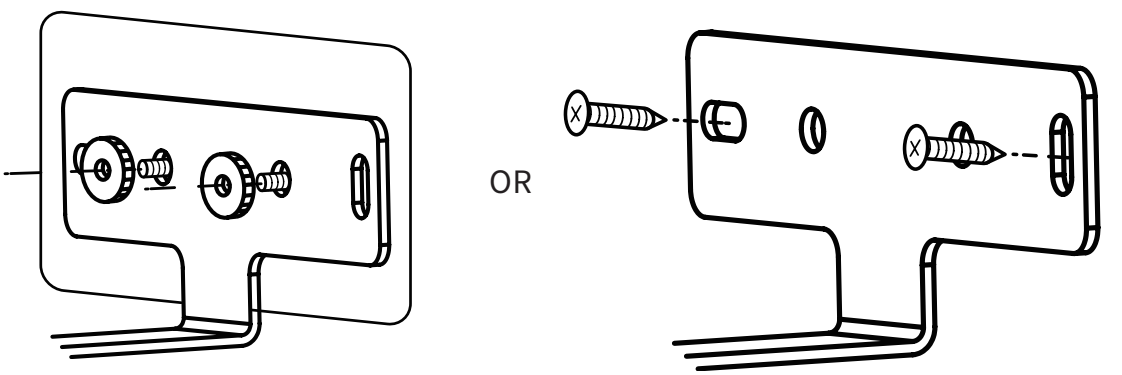


2. Formal Installation

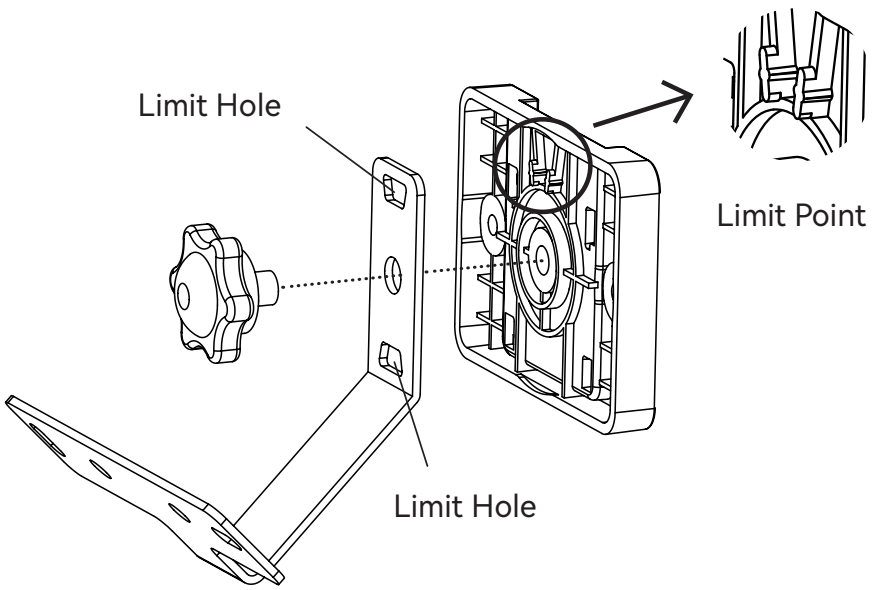
1) The middle two holes on the bracket are for adhesive strips, while the outermost two are screw holes. Depending on your actual installation environment and method, please choose the fixing method yourself: screws or adhesive strips.



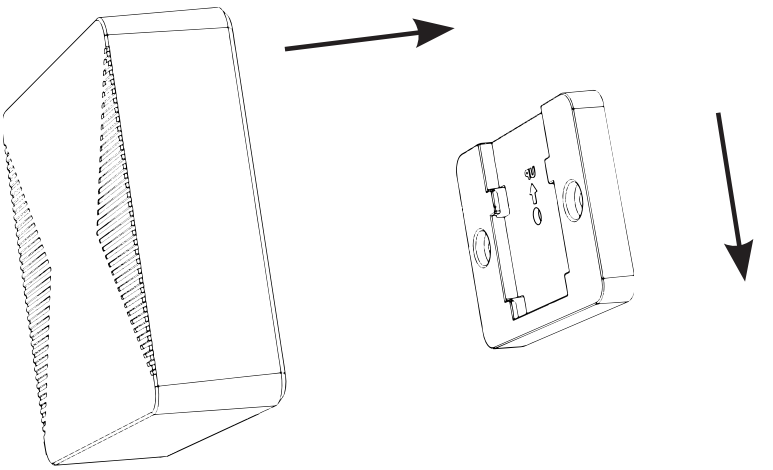
2) Peel off the adhesive strips or fix the bracket with screws at your chosen installation location (adhesive strips are not suitable for lime walls, brick, concrete walls, or wallpaper). After installation, check that it is secure and ensure the device does not shake.



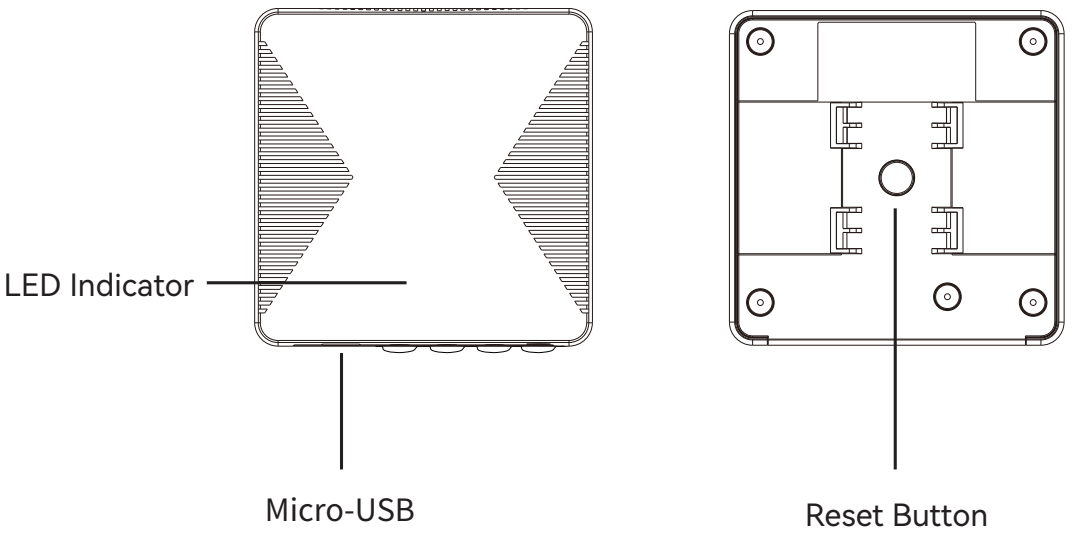
3) Align the device's wall mount with the locking point at the center of the bracket. Then, install it onto the bracket using the plastic-headed screw, ensuring the limit point on the wall mount engages with one of the limit holes. Make sure the 'UP' text on the front of the wall mount faces the ceiling.



4) Locate the hook on the back of the device and install the hook onto the wall mount.



3 Get to know your device



Reset Button

Reset: Press and hold the reset button for 10 seconds until the LED light flashes red three times.

LED Indicator

The status provides the following information:

LED Color	Status	What it means
No light	/	No presence detected / Anti-light pollution mode enabled
Green	Always-on	Presence detected
	Flashing	Device has not joined a ZigBee network and is ready to join the gateway
Red	Flashing	Dangerous posture detected / Low posture detected / Abnormal posture detected

4 Configure Network

4.1 Before starting, you will need:

Prepare a ZigBee gateway.

4.2 Adding the device to the gateway:

1. Power on the device. Wait for the LED indicator to flash green, which means it is ready to join the network. If not, please reset it.
2. Set your gateway to permit joining.
3. The sensor will join the gateway's network automatically and the LED indicator stops flashing green when successfully joined.