60G Fall Alarm Radar

Module：FD60A1-W



User Manual

I. Product introduction

The fall alarm radar is based on the millimeter wave point cloud algorithm to realize human biological presence perception and posture perception. It keeps recording human existence, residence time, and body movement amplitude; raises the alarm in real time for fall posture; and can realize scene linkage through wireless signal notification gateway. The product is installed indoors on the top and above the height of human bodies. The installation height by default is 2.4 m. You can adjust product performance through interface parameters.

II. Functions

- **Fall posture alarm**

  Recognizes the posture of a person lying on the ground, and gives real-time feedback to the cellphone.

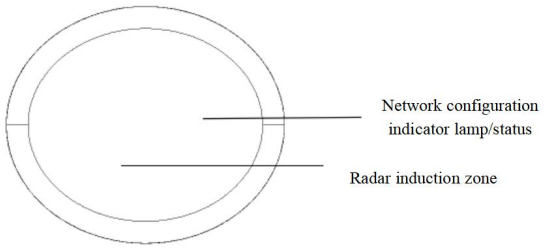
- **Dwell alarm**

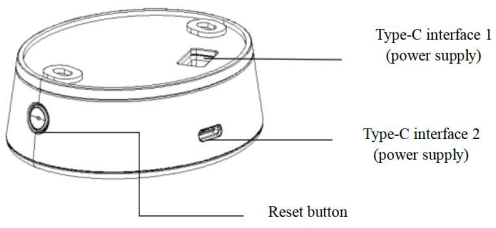
  An alarm will be raised if the body stays in any posture for an extended period of time.

- **Accurate life detection, and human existence detection**

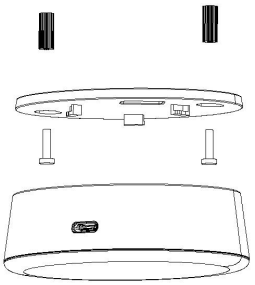
  Continuously and accurately detects whether one is moving, staying still, or in a coma.

III. Appearance





IV. Instructions and considerations on installation



(1) Secure the product to the rooftop. Perform drilling and install expansion bolts, or stick it to the wall;

(2) Push in the expansion bolts, and fix the base plate of mounting bracket;

(3) Align the radar base with the clips of the mounting bracket, and rotate to fasten the radar;

(4) The product is designed into an ellipse. The long side is the far end to the radar, while the short side is the near end;

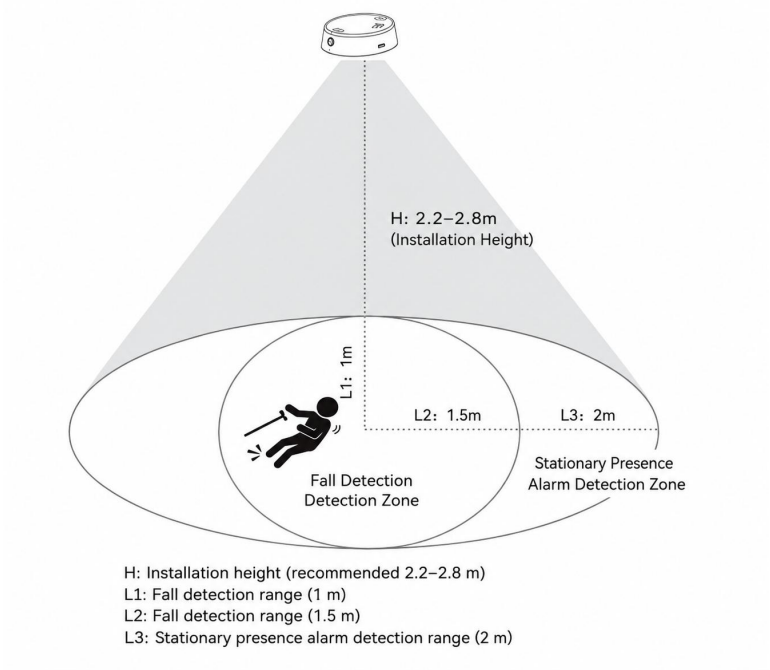
(5) Power on the device, configure the network, and connect the App.

* To ensure accurate radar detection, please install the device securely on the ceiling.

V. Installation considerations: Top mounting

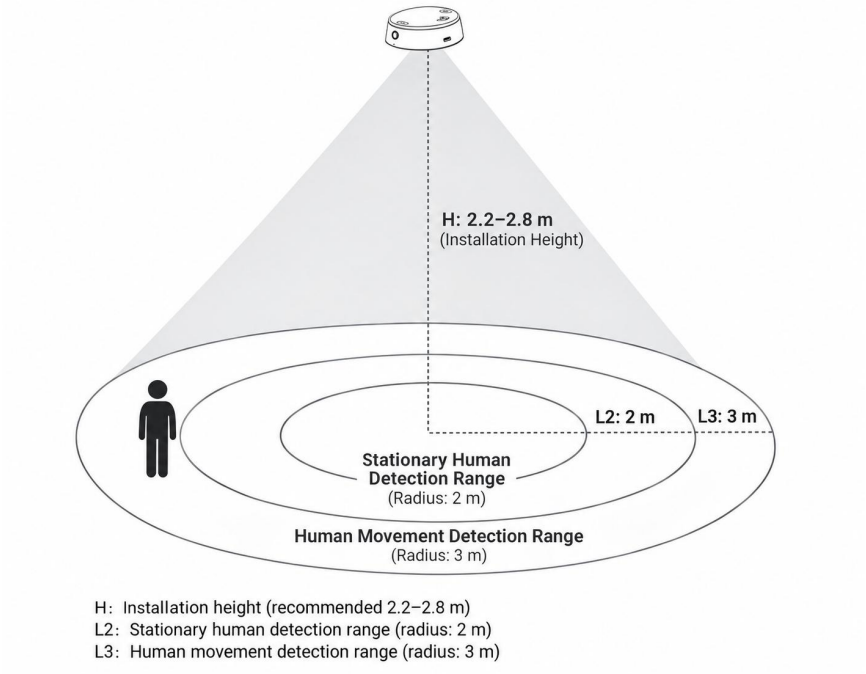
(1) Fall Detection

For top-mounted installation, the radar detection range for stationary presence/occupancy alerts is 4 m * 4 m, while the fall detection range is 3 m * 2 m. The radar installation position should be selected according to the specific room layout and structure.



(2) Human Presence

For ceiling-mounted installation, the radar detection range for human movement is approximately 5 m × 6 m, while the detection range for stationary human presence is 4 m × 4 m. The radar installation position should be selected according to the specific room layout and structure.



VI. Indicator Status & Performance Troubleshooting Table

Indicator Status

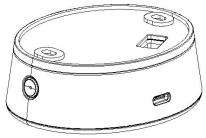
Red indicator flashing	Device is in network configuration mode
Red indicator off	Device is in normal operating mode / no button operation
Red indicator on	Button press detected
Red indicator stays on	Device is configured for Wi-Fi but not connected to the server

Performance Troubleshooting Table

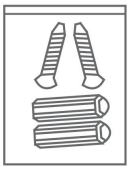
Name	Performance Issues
60GHz Fall Detection Device	1. Surface cracks or damage caused by structural or material factors 2. Indicator light failure

	3. Reset button failure 4. Wi-Fi connection failure 5. Human presence detection failure

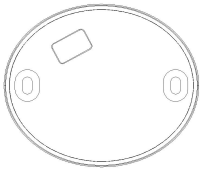
VII. Packaging List



Radar × 1



Screw fixings package × 1



Mounting base × 1



User Manual × 1



Power cord × 1

* The appearances and lists in this manual are for reference only.

* In case of any changes in the app functions, the latest version should prevail.

VIII. Product Parameters

Functions	**Specification**
Product name	60G Fall alarm radar
Model	FD60A1-W
Product measurements	29.5×73×86mm
Working Frequency of radar	61GHz~61.5GHz
Installation method	Top mounting
Distance of detection	3-6 m
Angle of detection	100° horizontally & 100° vertically
USB power supply	5V/1A
Wi-Fi protocol	Tuya / Wi-Fi
Working temperature	-10℃~+60℃