

Radar Fall Detection Sensor

Featuring LoRaWAN®

VS373



Milesight



VS373 is a Radar Fall Detection Sensor¹ that adopts a Millimeter Wave Radar to capture falling. It provides non-contact person detection through point cloud data and realizes fall alarms. With a fall detection accuracy rate of up to 99%, it ensures the safety of users.

As a Milesight D2D controller & agent, the VS373 seamlessly communicates with other Milesight D2D devices, establishing more connections and paving the way for smoother operations. It can also be linked with alarm switch to notify the relevant personnel to take emergency measures.

With easy configuration and wireless detection, VS373 can be integrated with the Milesight LoRaWAN® gateway and Milesight Development Platform, enabling remote and visual management of all sensor data.

VS373 can be used in living rooms, bathrooms, bedrooms, kitchens, hospital wards, care homes, and other spaces where falls may occur.

◆ Features

- Equipped with Millimeter Wave Radar, it can overcome the adverse effects of light and water mist, which make it able to penetrate some obstacles
- Equipped with a millimeter-wave MIMO array antenna (24 Transmitters & 22 Receivers), it can provide higher precision and reliability

- Support continuous 24-hour detection and management capabilities, it does not rely on visible light and can operate stably both day and night
- Support fall detection with a 99% fall capture rate and less than 5% false alarm rate²
- Support add sub region for independent occupancy detection
- Support in-bed detection, leaving the bed within the scheduling time will trigger an alarm
- 100% privacy protection, no images will be captured
- Support on-site alarms of buzzer and LED indicator and provide backend reporting of alarm information, enabling timely notification of any emergency
- Support Milesight D2D protocol to enable ultra-low latency and direct control without gateways
- Support management via Milesight Development Platform

◆ Specifications

Fall Detection	
Technology	Millimeter Wave Radar
Recognition Rate ²	Up to 99% (Single Person)
Installation Height	2.3m~3m
Radar	
Transceiver	24 Transmitters & 22 Receivers
Frequency	60GHz
FoV	140 ° Horizontal, 70 ° Vertical
Detection Range	4m*5m
Wireless Transmission	
Protocol	LoRaWAN [®] , Milesight D2D
Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/22 dBm (915MHz)/19 dBm (470MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class C
Others	
Advanced Feature	Milesight D2D Controller & Agent, Occupancy Detection, In-Bed Detection, Motion Detection, Data Storage, Data Transmission, Data Retrievability
Wi-Fi	IEEE 802.11 b/g/n, 2.4GHz (AP Mode for Configuration)
DI/DO	1 × DO (60V/1A)
Button	1 × Reset Button, 1 × Multi-function Button

LED Indicators	1 × Multi-color LED Indicator
Buzzer	1 × Buzzer
Power Input	1 × Type-C Cable (2m)
Physical Characteristics	
Power Supply	DC 5V/ 3A by Type-C Port
Power Consumption	Max: 10W
Operating Temperature	0°C ~ 50°C
Relative Humidity	0 ~ 95% (non-condensing)
Dimension	110 × 82 × 15 mm (4.33 × 3.23 × 0.59 in)
Weight	240g
Ingress Protection	IP65
Color & Material	White, ABS (UL94 V1)
Installation	Ceiling Mounting

¹: This product is intended only as an auxiliary tool and cannot fully replace manual monitoring or personal companionship.

²: Installation under single-person scenario, non-narrow space, no strongly reflective objects (such as glass, mirrors, large areas of metal), no moving objects (such as fans, pets, robot vacuums); and correctly installed according to the steps in the quick start guide.

