

Specification

Personnel Presence Sensor

FS-RDN312

Version 2025-1.1

❖ Product Introduction

The FS-RDN312 personnel presence sensor utilizes 60GHz millimeter-wave radar technology for high-precision detection and wide coverage. It can detect people sitting still, moving slightly, and in motion, and supports detection in four zones. It offers strong environmental adaptability, eliminates the need for identity verification, and strictly protects personal privacy. It is widely applicable in smart buildings, elderly care facilities, hospital ward monitoring, office spaces, educational institutions, and security scenarios.

❖ Product Features

- ◆ Privacy protection, no personal identification information is collected
- ◆ Presence detection for people sitting still, moving slightly, and moving
- ◆ Supports regional lingering detection
- ◆ Supports setting up to four detection zones
- ◆ Supports ceiling-mount and side-mount installation for wide adaptability
- ◆ Supports mobile phone configuration for easy operation
- ◆ Compact size for easy installation

❖ Packing List

• Product Pictures



Front View

❖ Product Parameters

Product Model	FS-RDN312
Key Performance Parameters	
Monitoring Function	Supports personnel sitting, micro-movement and dynamic detection
Detection Function	Supports presence/absence detection; Supports setting up to four detection zones.
Alarm Function	Supports long periods of active alarms; Supports long periods of unattended alarms.
Installation	
Installation Method	Ceiling or wall mounted
Installation Height	Ceiling mount: 2m to 4.5m Wall mount: 2m to 4m
Coverage Range	Ceiling mount: Maximum 12m x 6m Wall mount: Maximum 12m x 10m
Radar Parameters	
Operating Frequency Band	60GHz
Modulation Method	FMCW

Interface	
Wired Communication Interface	RJ45 10M/100M adaptive Ethernet port
Wireless Communication Interface	2.4GHz Wi-Fi
Hardware Parameters	
Power Supply	DC 12V, 1.0A (5.5mm round jack)
Power Consumption	≤ 5W
Operating Temperature	-20°C - 50°C
Operating Humidity	5% - 95% RMS
IP Rating	IP65
Weight	Approximately 120g (with bracket)
Dimensions (L x W x H)	90.0mm*90.0mm*38.3mm

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