



RTJSD02

Counting Sensor



RTJSD02 counting sensor receives thermal IR energy from objects through its thermopile array to detect people passing through. The sensor can calculate the number of passing people and their direction of travel.

Features

People Counting

RTJSD02 is fixed directly above a doorway using an adhesive, with an installation time of <1 minute. When a person passes through the doorway, the thermopile array registers a temperature change and its trajectory. After processing, the passing direction and the number of persons will be accurately calculated. RTJSD02 only collects information based on temperature changes directly under the sensor. The sensor can not collect any personal or identifying.

Bluetooth Mesh Technology

Bluetooth Mesh technology used in RTJSD02 is a global wireless standard for communication between smart devices in industrial automation environments. Bluetooth Mesh technology uses a reliable mesh network to keep devices connected and working together while providing excellent battery life.

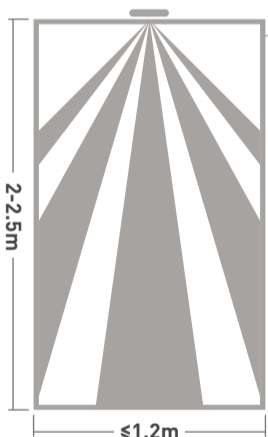
Dynamic Temperature Compensation

Dynamic temperature compensation enables RTJSD02 to automatically monitor the ambient temperature and adjust the signal processing algorithms to maintain stability over temperature changes.

Real-time Data Reporting and Offline Caching

RTJSD02 reports measurement data through the gateway with a delay of less than 100 ms. If the sensor is offline, the data will be cached locally and will transmit all stored data after the network connection is restored.

Installation Guide



Door

* The recommended installation height is between 2m and 2.5m. Installed below 2m or above 2.5m, blind spots will appear and some area cannot be detected.

* Remember to point the detection probe at the area needed to be probed. Fix the sensor as close as possible to the edge of the door frame.

Datasheet

General Specifications

Dimensions	164x34.5x34.5mm
Weight (with battery)	138.5g
Casing	ABS plastic

Environment Requirements

Operating temperature	0~35℃
Operating humidity	10~95%RH, no condensation
Mounting location	Above the door, 2-2.5m away from the floor
Mounting	Screws / Adhesives
Detection angle	≈80°
Detection distance	≤1.2m

Power

Battery	Built-in battery
Battery life	1year
Battery capacity	17000mAh

Performance standards

Counting accuracy	≥90%
Counting direction	Two Way

Others

IP rating	IP52
Standards	EN 60669-1 EN 60669-2-1

* The above data is measured by 9am laboratory, and may be affected by environmental factors.

* Counting accuracy = (1 - the statistical error of people counted by sensors / the actual number of people) x 100%

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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

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

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.

RF Exposure Warning Statements:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.