RTCZA04

Occupancy Sensor

RTCZA04 occupancy sensor registers infrared thermal energy from people via a thermopile element. It can detect whether a person present and effectively measure the duration of time they remain.

Features

Bluetooth Mesh technology
Bluetooth Mesh technology used in RTCZA04 is a global wireless standard for communication between smart devices and anti-theft systems 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 RTCZA04 to automatically monitor the ambient temperature and adjust the signal processing algorithms to maintain normal sensing performance in varying temperatures.

Active White Light Suppression
Strong sources of white light can interfere with the senses operation. However, the RTCZA04 can actively identify and measure the amount of interfering light allowing for internal processes to remove such noise from the data.

Real-time Data Reporting and Offline Caching
RTCZA04 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 transmitted after the network connection is restored.

Datasheet

General Specifications

Dimensions	52.6x52.6x13.5mm
Weight (with battery)	29g
Casing	ABS plastic

Environment Requirements

Operating temperature	0～35℃
Operating humidity	10～95%RH, no condensation
Mounting location	Under the desktop
Mounting	Adhesives
Detection angle	95° Field of view, horizontal 87° Field of view, vertical
Detection distance	≤50cm

Power

Battery	CR2450 lithium battery, 3VDC
Battery life	2year
Battery capacity	610mAh

Performance standards

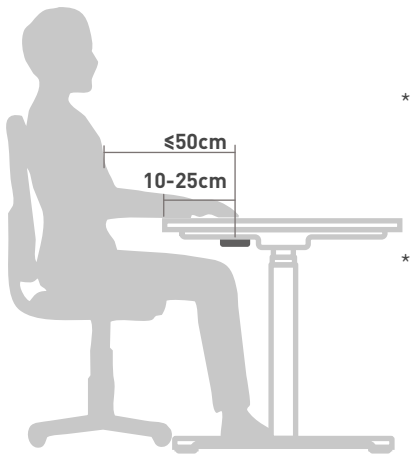
Measurement accuracy	≥98%
Measurement frequency	10Hz

Others

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

* Measurement Accuracy=(1-the statistical error of time recorded by sensors /the actual time of measurement)x100%
* The above data is measured by 9am laboratory, and may be affected by environmental factors.

Installation Guide



* Recommended installation location: Install 10-25 cm from the edge of the desk, directly in front of where people sit. If it is installed outside of these limits blind spots will appear.
* Remember to point the detection probe at the area needed to be probed.

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.

• www.9amtech.com
• contact@9amtech.com
• 400-037-8109

Recommended installation location: