



# Wenzhi WZ-M100-1 Micro Motion Sensor Instruction Manual

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## Wenzhi

### Wenzhi WZ-M100-1 Micro Motion Sensor



### Product Information

- Specifications

- **Product Model:** WZ-M100-1
- **Product Function:** Micro Motion Sensor
- **Fretting Detection Radius:** 5 ~ 7 meters
- **Motion Detection Radius:** 1 ~ 3 meters
- **Detectable Illuminance Value:** Adjustable parameters
- **Power Supply:** 12V

## Product Function and Usage

### • Fretting Detection

- The WZ-M100-1 Micro Motion Sensor is capable of detecting small movements such as hand lifting, hand flicking, and hand turning.

### • Motion Detection

- This sensor can detect various types of movements including walking, trotting, fast running, circling, jumping, and more.

### • Illuminance Detection

- The WZ-M100-1 can detect changes in illuminance. The detection distance and other parameters can be adjusted using the dedicated app.

### • Presence Detection

- This sensor is capable of detecting static states of the human body such as standing still, squatting still, sitting still, and more.

### • Distance Measurement

- The WZ-M100-1 features a target distance measurement function that accurately filters targets outside the specified area.

### • Log Query

- Using the app, you can query the records of human existence and illumination changes captured by the sensor.

### • Fault Detection

- The sensor can check for equipment faults and provide fault information through the dedicated app.

### • Application Area

- The existing detection radius of the WZ-M100-1 is 1 to 3 meters, while the fretting detection radius is 5 to 7 meters.

### • Installation

#### ◦ Power Connection:

- Connect the sensor to a 12V power adapter.
- The indicator light will turn on for 1 second and then flash slowly, indicating successful power-on.

#### ◦ Network Distribution:

- Open the bottom cover of the sensor to access the reset button.
- Press and hold the reset button for more than 6 seconds until the indicator light flashes to enter the ZigBee distribution network.

#### ◦ Ceiling Installation:

- Use the clips provided on both sides of the sensor to install it on the ceiling gypsum board.
- **Caution:** Any changes or modifications to this device not explicitly approved by the manufacturer

could void your authority to operate this 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.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. It should be installed and operated with a minimum distance of 20cm between the radiator and your body.

#### • Frequently Asked Questions

- **How can I adjust the detection distance and other parameters?**
  - You can adjust the detection distance and other parameters by using the dedicated app provided with the WZ-M100-1 sensor.
- **What is the power supply requirement for the sensor?**
  - The sensor requires a 12V power supply. Make sure to connect it to a compatible power adapter.
- **Can I install the sensor on a different surface other than a ceiling gypsum board?**
  - No, the sensor is specifically designed for installation on a ceiling gypsum board using the provided clips.

#### Product Function

Fretting detection It can detect small movements, such as hand lifting, h and flicking, hand turning, etc.	Presence detection It can detect the human body standing still, squatting s till, sitting still and other static states.
Motion detection	Distance measurement
It can detect walking, trotting, fast running, circling, ju mping and other movements.	The target distance measurement function can accurat ely filter targets outside the area.

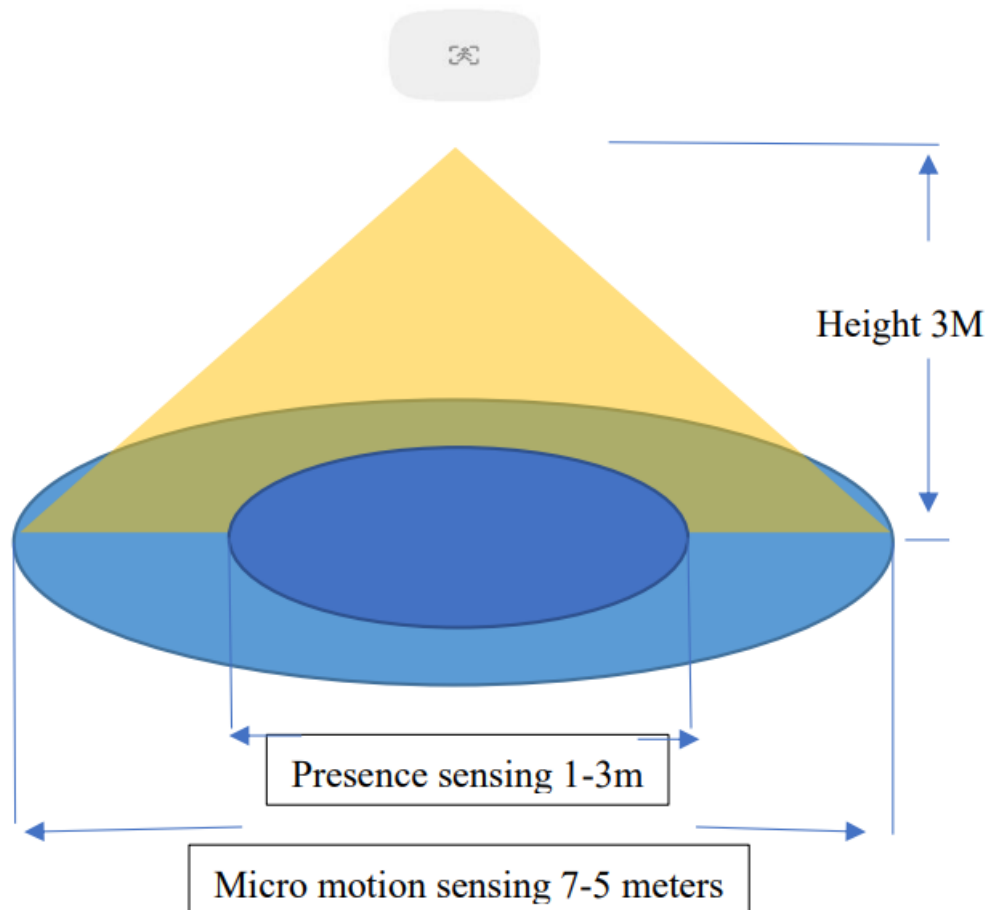
Illuminance detection Detectable illuminance value	Log query It can query the records of human existence and illumi nation change
Adjustable parameters Various parameters such as detection distance can be set through app.	Fault detection Equipment fault information can be self checked throu gh app

#### Application Area

ZY-M100 micro motion sensor can be widely used in lighting, security, home appliances, hotels, garages, buildings, and transportation.

1. "Inching" detection area: it can detect inching (small actions such as leaning head, waving, raising hands, light start, turning books, slightly tilting left and right, back and forth), movement (walking, trotting, fast running, turning, high jump and other movements), existence (standing still, squatting still);
2. "Presence" detection area: it can detect the human body in static state, such as standing still, squatting still, sitting still, etc. Detection area (related to installation height and sensitivity parameters);

- **existing detection radius:** 1 ~ 3M
- fretting detection radius:** 5 ~ 7M



## Installation

### 1. Distribution network

- The sensor is powered by 12V and connected to the power adapter.
- The indicator light of the sensor will be on for 1s and then flash slowly, indicating that the power on is successful.
- The distribution network button is on the bottom cover. Open the cover and you can see a reset button. Press and hold the reset button for more than 6S until the indicator light flashes and enter the ZigBee distribution network.

### 2. Installation

- Use the clips on both sides to install on the ceiling gypsum board.

## FCC

### FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 following 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 the receiver.
- Connect the equipment to 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.

**Caution:** Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this 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.

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

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## Documents / Resources

	<p><a href="#">Wenzhi WZ-M100-1 Micro Motion Sensor</a> [pdf] Instruction Manual</p> <p>WZ-M100-1, 2BD2I-WZ-M100-1, 2BD2IWZM1001, WZ-M100-1 Micro Motion Sensor, Micro Motion Sensor, Motion Sensor, Sensor</p>
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## References

- [User Manual](#)