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WenzhiloT WZ-M100-C-W-5.8G

WenzhiloT WZ-M100-C-W-5.8G WiFi 5.8GHz MmWave Radar Presence Sensor User Manual

Model: WZ-M100-C-W-5.8G

1. Introduction

This manual provides detailed instructions for the installation, setup, operation, and maintenance of your WenzhiloT WZ-M100-C-W-5.8G WiFi 5.8GHz MmWave Radar Presence Sensor. This device is designed to detect human presence, including static presence, micro-movements, and general motion within a specified area, utilizing advanced 5.8GHz mmWave radar technology. It also features luminance detection for enhanced smart home automation.

2. Important Safety Information

- **Electrical Hazard:** This device operates on AC 80-240V. Installation involves working with high voltage electricity. To prevent electric shock or fire, installation should only be performed by a qualified electrician in accordance with all local electrical codes and regulations.
- **Power Disconnection:** Always disconnect power at the circuit breaker before installing, servicing, or removing the device.
- **Indoor Use Only:** This sensor is designed for indoor use in dry locations only. Do not expose to moisture or extreme temperatures.
- **Product Integrity:** Do not attempt to disassemble, modify, or repair the device. Doing so may void the warranty and pose safety risks.
- **Mounting:** Ensure the mounting surface is stable and can support the device securely.

3. Package Contents

Please verify that all items are present in your package:

- WenzhiloT WZ-M100-C-W-5.8G Presence Sensor
- User Manual (this document)
- USB Cable

4. Product Overview

The WZ-M100-C-W-5.8G sensor is a compact, ceiling-mount device designed for discreet integration into your smart home system. It features a 5.8GHz mmWave radar module for precise human presence detection and an integrated light sensor for ambient luminance monitoring.

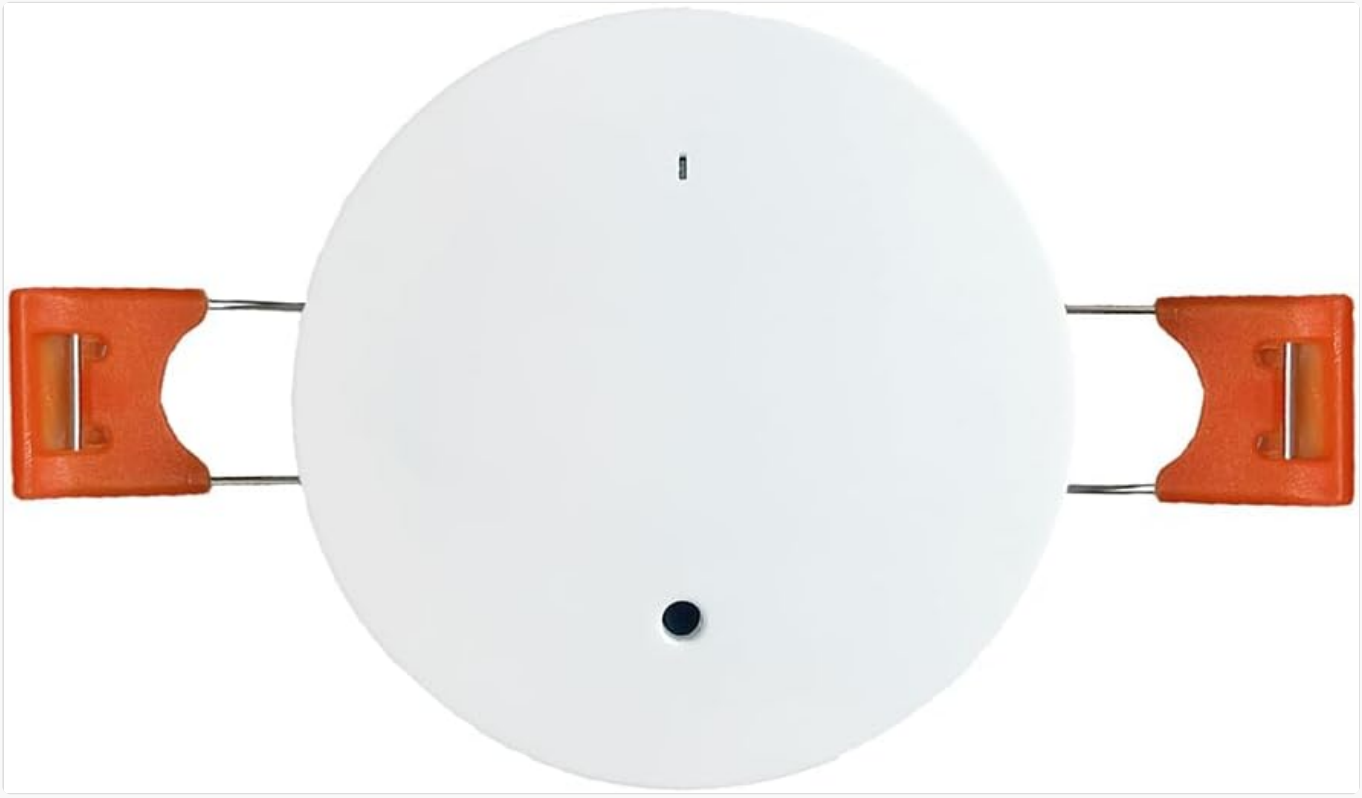


Figure 4.1: Top-down view of the WenzhiloT WZ-M100-C-W-5.8G Presence Sensor. This image shows the circular white sensor unit with a small indicator light and a detection aperture.

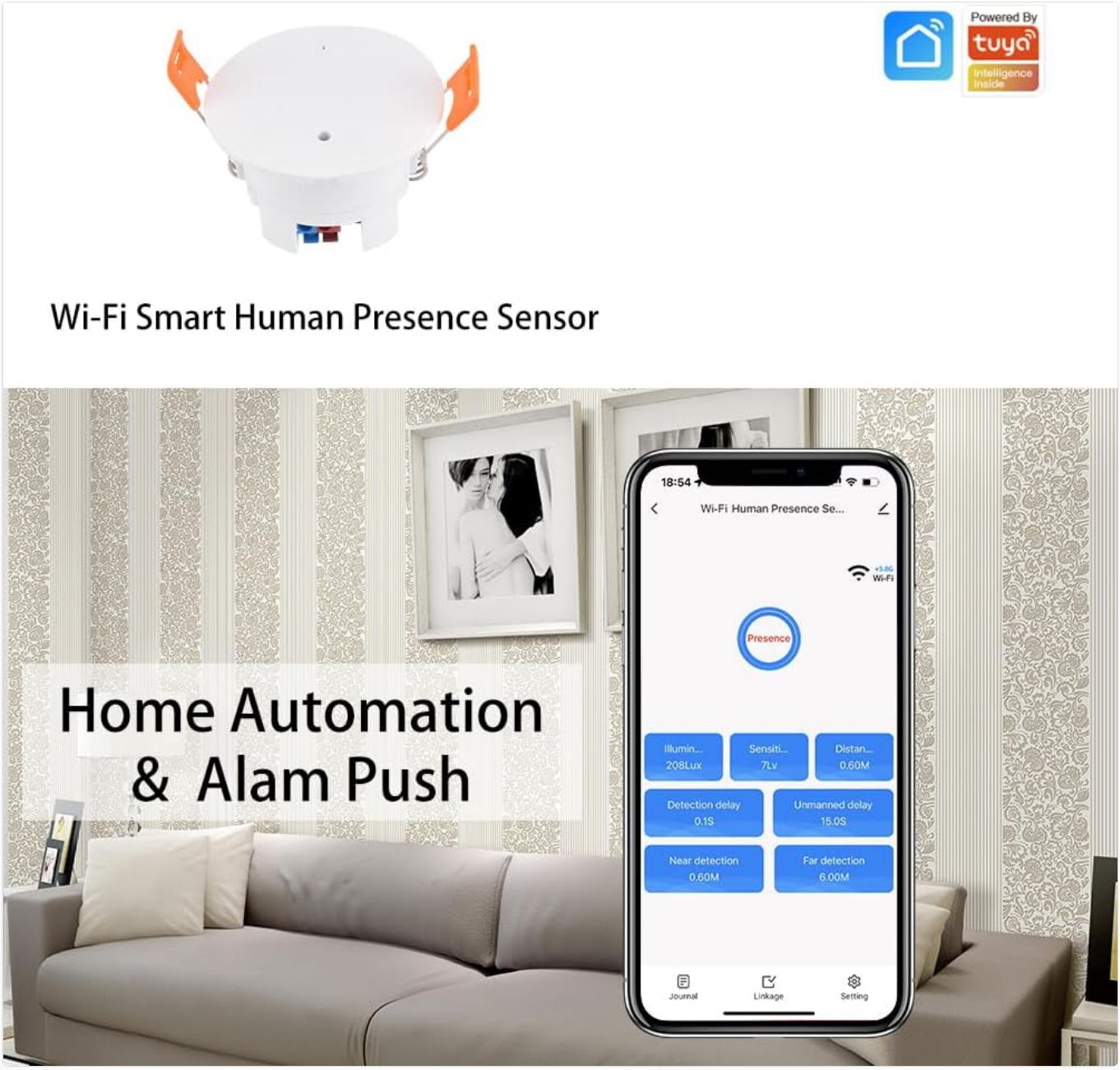


Figure 4.2: Side view of the WenzhiloT WZ-M100-C-W-5.8G Presence Sensor, illustrating its compact design and dimensions. The sensor has a diameter of approximately 61mm (2.4 inches) and a height of 39mm (1.54 inches). The required opening size for ceiling mounting is 53-58mm (2.09-2.28 inches).

5. Installation

The WZ-M100-C-W-5.8G sensor is designed for ceiling mount installation and requires direct wiring to an AC 80-240V power source. Due to the electrical nature of the installation, it is strongly recommended that a qualified electrician performs this procedure.

5.1 Site Selection

- Choose a central location in the area you wish to monitor for optimal detection coverage.
- Avoid placing the sensor directly above heat sources, air vents, or in areas with significant air currents, as these can interfere with detection.
- Ensure the ceiling material is suitable for cutting and securely mounting the device.

5.2 Mounting Steps (Professional Installation Recommended)

1. **Disconnect Power:** Turn off the power to the installation area at the main circuit breaker. Verify power is off using a voltage tester.
2. **Prepare Opening:** Using the dimensions provided in Figure 4.2 (required opening size: 53-58mm / 2.09-2.28 inches), carefully cut a circular hole in the ceiling.
3. **Wire Connection:** Route the AC 80-240V power wires through the prepared opening. Connect the live and neutral wires to the corresponding terminals on the sensor. Ensure all connections are secure and properly insulated.
4. **Insert Sensor:** Gently push the sensor into the ceiling opening. The spring clips on the sides of the sensor will secure it in place, similar to a recessed downlight.
5. **Restore Power:** Once the sensor is securely installed and wired, restore power at the circuit breaker. The sensor should power on.

6. Initial Setup and App Pairing

The WenzhiIoT WZ-M100-C-W-5.8G sensor integrates with the Tuya Smart or Smart Life application for control and configuration.

1. **Download App:** Download and install the "Tuya Smart" or "Smart Life" app from your mobile device's app store (available on iOS and Android).
2. **Register/Login:** Open the app and register for a new account or log in with an existing one.
3. **Add Device:**
    - Ensure your mobile device is connected to a 2.4GHz Wi-Fi network (5GHz networks are not supported for initial pairing).
    - In the app, tap the "+" icon (usually in the top right corner) to add a new device.
    - Select "Sensor" or "Presence Sensor" from the device list.
    - Follow the on-screen instructions to put the sensor into pairing mode. This typically involves a power cycle or pressing a reset button (refer to the sensor's indicator light behavior for confirmation).
    - Confirm the indicator light on the sensor is blinking as described in the app.
    - Enter your Wi-Fi network password when prompted.
    - The app will search for and connect to the sensor. Once connected, you can rename the device and assign it to a room.
4. **Configuration:** After successful pairing, you can access the sensor's settings within the app to customize its behavior.



Figure 6.1: Example of the Tuya Smart app interface for the presence sensor, displaying various adjustable settings such as sensitivity, detection delay, and unmanned delay.

7. Operation

The WZ-M100-C-W-5.8G sensor provides advanced presence and luminance detection capabilities, configurable through the Tuya Smart/Smart Life app.

7.1 Presence Detection

The mmWave radar technology allows for detection of:

- **Human Presence:** General detection of a person in the area.
- **Human Static:** Detection of a person who is stationary, such as sitting or sleeping.
- **Human Micro Motion:** Detection of subtle movements like breathing.
- **Human Movement:** Detection of active motion.

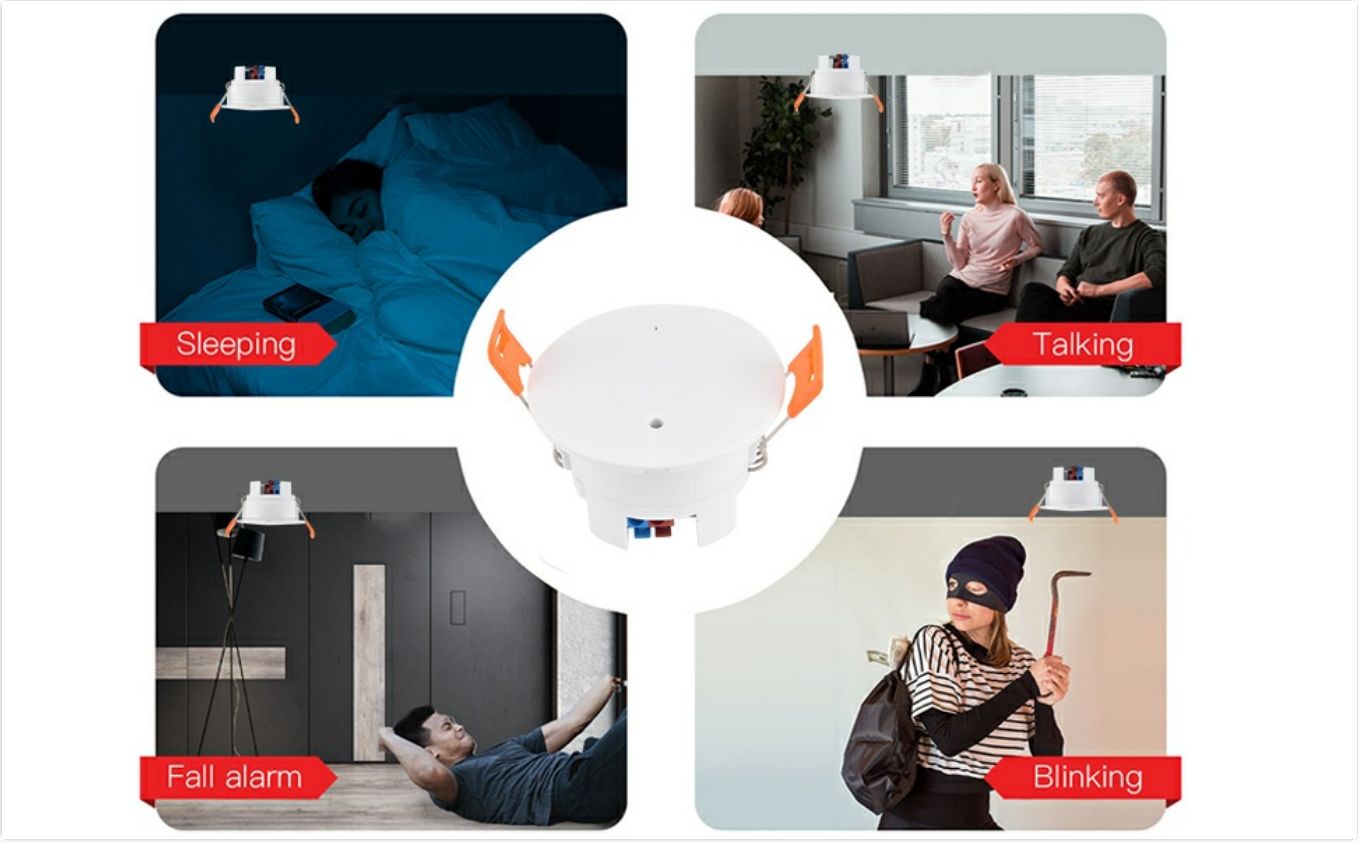


Figure 7.1: Visual representation of the sensor's ability to detect various human states, including sleeping, talking, lying down, and even subtle movements like blinking, indicating its high accuracy.

7.2 Luminance Detection

The integrated light sensor measures ambient light intensity, enabling smart scene linkages. For example, you can configure your smart lights to turn on automatically when the room's brightness falls below a certain threshold and presence is detected.



Figure 7.2: The sensor installed in a living space, demonstrating its illumination detection capability which can be used to trigger smart

home actions based on ambient light levels.

7.3 Adjustable Settings (via Tuya Smart/Smart Life App)

- **Sensitivity:** Adjust the detection sensitivity from 1 to 9 to suit your environment and desired responsiveness.
- **Detection Range:** Set the minimum (0.00m) and maximum (up to 9.5m) detection range for precise area monitoring.
- **Unmanned Delay:** Configure the time (5-1500 seconds) after which the sensor reports "no presence" if no motion is detected. This helps prevent false "presence" readings.
- **Detection Delay:** Set a short delay (0.1-10 seconds) before reporting presence to filter out brief, irrelevant movements and reduce false alarms.

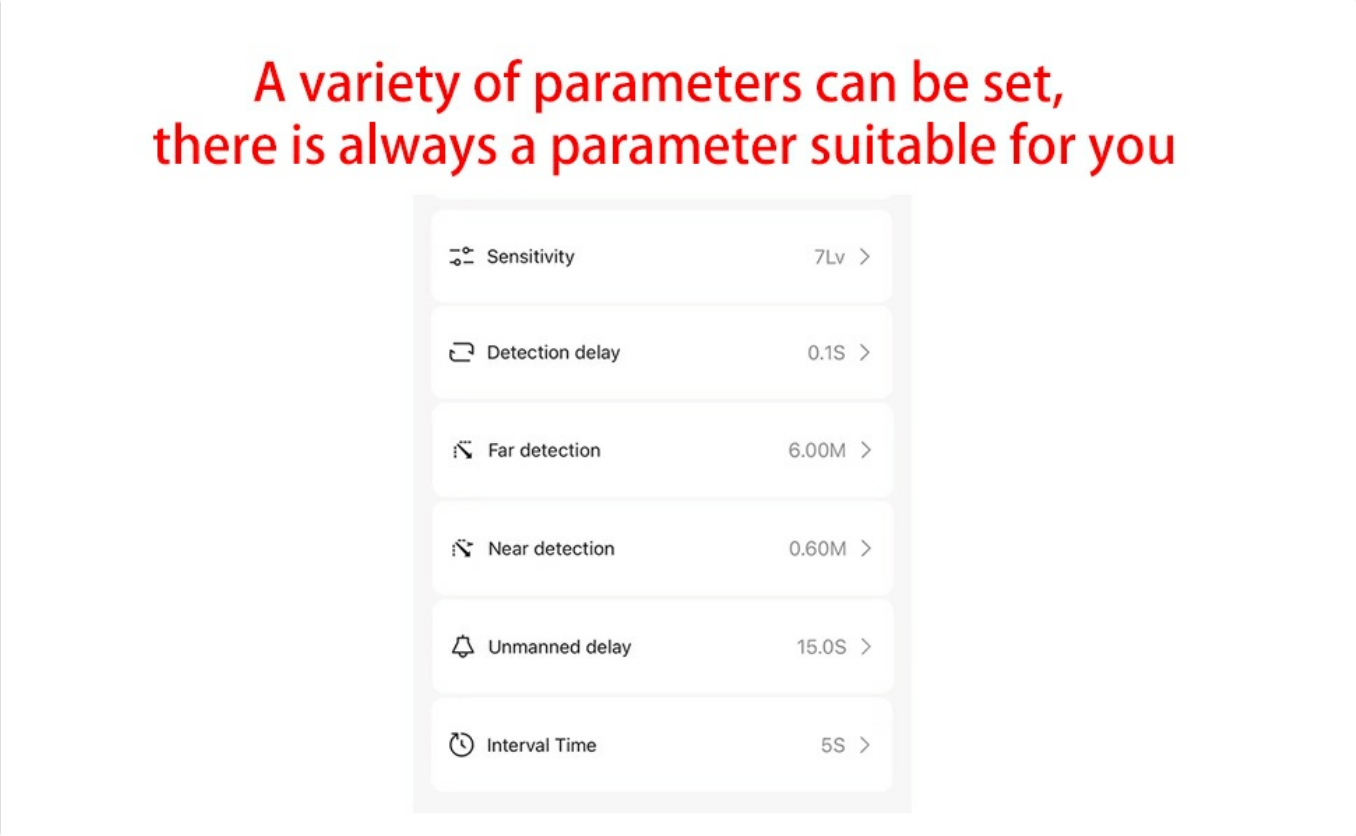


Figure 7.3: The Tuya Smart app interface displaying various adjustable parameters for the presence sensor, including sensitivity, detection delay, and detection range settings.

8. Maintenance

The WZ-M100-C-W-5.8G sensor requires minimal maintenance.

- **Cleaning:** Periodically wipe the sensor's surface with a soft, dry cloth to remove dust. Do not use abrasive cleaners, solvents, or excessive moisture.
- **Firmware Updates:** Check the Tuya Smart/Smart Life app regularly for any available firmware updates for your device to ensure optimal performance and security.

9. Troubleshooting

If you encounter issues with your WenzhiIoT presence sensor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Sensor not powering on	No power supply; incorrect wiring.	Check the circuit breaker. Verify electrical wiring connections (consult a qualified electrician if unsure).
Unable to pair with app / Frequent disconnections	Incorrect Wi-Fi band (not 2.4GHz); weak Wi-Fi signal; incorrect pairing mode.	Ensure your phone is on a 2.4GHz Wi-Fi network during pairing. Move router closer or use a Wi-Fi extender. Re-initiate pairing mode as per app instructions.
Inaccurate or delayed detection	Incorrect sensitivity/delay settings; obstructions; interference.	Adjust sensitivity, detection range, and delay settings in the app. Ensure a clear line of sight for the radar. Avoid placing near sources of electromagnetic interference.
Sensor unresponsive	Firmware issue; hardware malfunction.	Try power cycling the sensor (turn off/on at breaker). Check for firmware updates in the app. If issues persist, contact customer support.

10. Specifications

Feature	Detail
Brand	WenzhiIoT
Model Number	WZ-M100-C-W-5.8G
Style	Wifi 5.8GHz MmWave Radar
Power Source	Corded Electric (AC 80-240V)
Maximum Range	7 Meters (adjustable up to 9.5m in app)
Mounting Type	Ceiling Mount
Product Dimensions	3.94"D x 3.94"W x 1.57"H (approx. 61mm diameter x 39mm height)
Operating Temperature	Up to 70 Degrees Celsius
Item Weight	2.24 ounces
Compatible App	Tuya Smart / Smart Life

11. Warranty and Support

For specific warranty details, please refer to the documentation included with your purchase or contact WenzhiIoT customer support directly. Information regarding warranty periods and terms of service is typically provided at the point of sale or on the manufacturer's official website.

If you require technical assistance or have questions not covered in this manual, please contact WenzhiIoT customer support through their official channels. You may find contact information on the product packaging, the WenzhiIoT brand store on Amazon, or their official website.

Visit the WenzhiIoT Store for more information.

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