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WenzhiloT MTG076-WF-RL-5.8G

WenzhiloT Smart WiFi 5.8GHz MmWave Radar Presence Sensor Instruction Manual

Model: MTG076-WF-RL-5.8G

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your WenzhiloT Smart WiFi 5.8GHz MmWave Radar Presence Sensor. This device is designed to accurately detect human presence, including static presence, micro-motion, and general movement, enabling smart automation for lighting and other home systems via the Tuya Smart Life app.

2. Product Overview

2.1 Key Features

- **Advanced Presence Detection:** Utilizes mmWave Radar technology to detect human presence, including static states like sleeping, micro-motion, and general movement.
- **Integrated Illuminance Sensor:** Monitors ambient light intensity for smart scene linkage, allowing automatic control of lighting based on brightness changes.
- **Built-in 16A Relay:** Directly connect and control lighting or other electrical loads (85-265V AC) without an additional smart switch.
- **Flexible Installation:** Supports both ceiling and wall mounting using double-sided adhesive or expansion screws.
- **Customizable Parameters:** Multiple adjustable settings for sensitivity, detection range, departure delay, and relay modes via the Tuya Smart Life app.
- **Tuya Smart Life Integration:** Seamlessly integrates with the Tuya Smart Life ecosystem for remote control and smart home automation.

2.2 Package Contents

- WenzhiloT Smart WiFi 5.8GHz MmWave Radar Presence Sensor
- Double-sided tape
- Expansion screws

- Instruction Manual (this document)

2.3 Product Diagram



Figure 1: Front view of the WenzhiloT Smart WiFi 5.8GHz MmWave Radar Presence Sensor.



Figure 2: The sensor's ability to detect various human states, including sleeping, talking, and general movement.

3. Safety Information

- **Electrical Safety:** Installation involves connecting to AC power (85-265V). Ensure power is disconnected at the circuit breaker before installation to prevent electric shock. If you are unsure about electrical wiring, consult a qualified electrician.
- **Indoor Use Only:** This device is designed for indoor environments. Do not expose it to water, high humidity, or extreme temperatures.
- **Mounting:** Ensure the sensor is securely mounted to a stable surface to prevent it from falling.
- **Interference:** Avoid placing the sensor near large metal objects or other devices that may cause electromagnetic interference, as this can affect detection accuracy.

4. Setup

4.1 Installation

The sensor supports two installation methods: ceiling mount and wall mount.

1. **Choose Location:** Select a location that provides optimal coverage for the desired detection area. Avoid obstructions that could block the radar signal.
2. **Power Disconnection:** Turn off the main power supply to the installation area at the circuit breaker.
3. **Mounting:**
    - **Using Expansion Screws:** Mark the positions for the expansion screw installation holes on the ceiling or wall. Drill pilot holes, insert the expansion screws, and secure the sensor.
    - **Using Double-Sided Tape:** Apply the provided double-sided tape to the back of the sensor and firmly press it onto a clean, dry, flat surface.
4. **Wiring:** Connect the AC power supply (85-265V) to the sensor's terminals. If using the 16A relay function to control a light, connect the light fixture to the designated relay terminals. Refer to the wiring diagram in Section 5.2.
5. **Power Connection:** Restore power at the circuit breaker.

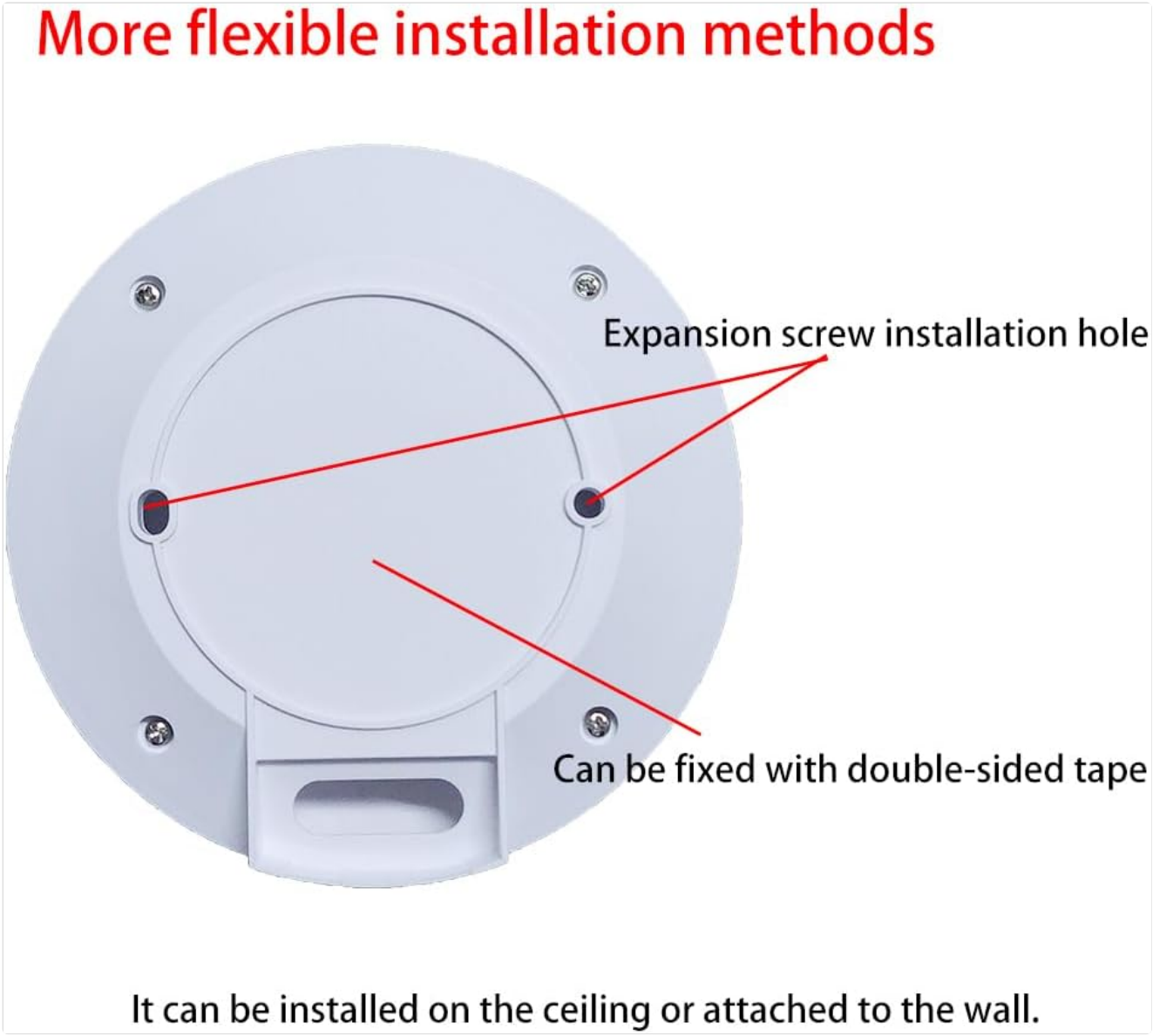


Figure 3: Rear view of the sensor indicating expansion screw holes and area for double-sided tape for flexible installation.

4.2 App Connection (Tuya Smart Life)

1. **Download App:** Download the Tuya Smart or Smart Life app from your mobile device's app store.

2. **Register/Login:** Create an account or log in to your existing account.
3. **Add Device:** In the app, tap the "+" icon to add a new device. Follow the on-screen instructions to put the sensor into pairing mode (usually by powering it on, or a specific button press if available, refer to app instructions).
4. **Connect to Wi-Fi:** Select your 2.4GHz Wi-Fi network and enter the password. The sensor will connect to the network.
5. **Device Added:** Once successfully added, you can rename the device and access its settings.

5. Operating Instructions

5.1 Parameter Settings

The Tuya Smart Life app allows you to customize various parameters for optimal performance. These settings include common parameters and control parameters.

- **Common Parameters:** Adjust settings such as sensitivity, departure delay, detection range, entry sensitivity, entry filter time, entry distance indentation, shield range, and block time. These parameters fine-tune how the sensor detects and responds to presence.
- **Control Parameters:** Manage settings related to status indication, sensor activation, breaker mode, breaker status, breaker polarity, and illuminance threshold.

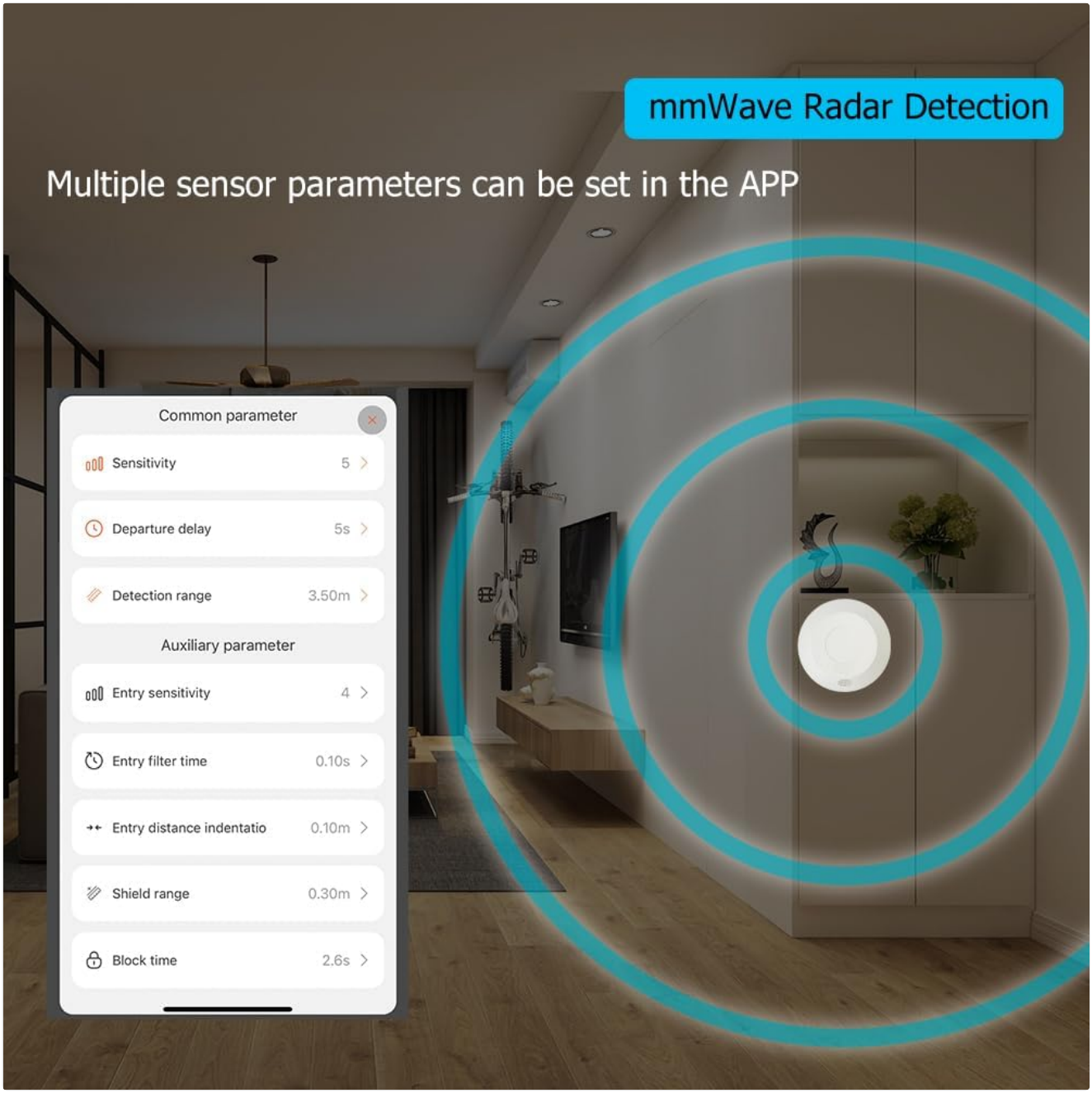


Figure 4: Screenshot of the Tuya Smart Life app showing various common parameters that can be adjusted for the mmWave radar detection.

5.2 16A Relay Function and Modes

The sensor features a built-in 16A relay, allowing direct control of connected loads like lights. Three relay modes can be configured in the app:

- **Standard (Cloud Linkage):** The relay can be remotely controlled (turned on/off) through the Tuya Smart Life app. This mode allows for manual control or integration into complex smart scenes managed by the cloud.
- **Local (Automatic):** If human presence is detected, the relay will automatically turn on. When no presence is detected for a set duration (departure delay), the relay will automatically turn off. This is ideal for automated lighting based on occupancy.
- **Not Support (Disable Relay):** In this mode, the relay function is disabled. The sensor will only act as a presence detection device, sending data to the app for smart scene triggers without directly controlling a load.



Figure 5: Wiring diagram for connecting the sensor to an AC power source and an optional light fixture, alongside app settings for relay modes.

5.3 Illuminance Detection Function

The integrated illuminance sensor allows the device to measure ambient light levels. This feature can be used to create smart scenes within the Tuya Smart Life app. For example, you can configure your lights to turn on automatically only when presence is detected **and** the ambient light level falls below a certain threshold, optimizing energy usage.



Figure 6: An example of the sensor's illumination detection function in a living space, enabling smart lighting control.

6. Maintenance

- **Cleaning:** Gently wipe the sensor's surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Firmware Updates:** Periodically check the Tuya Smart Life app for available firmware updates to ensure optimal performance and access to new features.
- **Environmental Conditions:** Ensure the sensor remains within its specified operating temperature and humidity ranges to prolong its lifespan.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Sensor not detecting presence	Incorrect sensitivity settings; Obstructions in detection area; Sensor mounted too high or low; Power issue.	Adjust sensitivity and detection range in the app. Ensure clear line of sight. Verify power connection. Reposition sensor if necessary.
Sensor frequently triggers when no one is present	Sensitivity too high; Environmental factors (e.g., moving curtains, pets).	Reduce sensitivity in the app. Adjust shield range or block time. Ensure sensor is not pointing at sources of false triggers.
Cannot connect to Wi-Fi/App	Incorrect Wi-Fi password; 5GHz Wi-Fi network selected; Router too far; Sensor not in pairing mode.	Ensure correct 2.4GHz Wi-Fi network and password. Move sensor closer to router. Re-enter pairing mode as per app instructions.
Relay not controlling light	Incorrect wiring; Relay mode set to "Not Support"; Light fixture issue.	Verify wiring according to diagram. Check relay mode in app (set to Standard or Local). Test light fixture independently.

8. Specifications

Feature	Specification
Brand	WenzhiIoT
Model Number	MTG076-WF-RL-5.8G
Style	Wifi 5.8GHz MmWave Radar
Color	Circular
Power Source	Corded Electric (AC 85-265V)
Maximum Range	10 Meters
Mounting Type	Ceiling Mount, Wall Mount
Compatible Devices	Smart Home Systems, Lighting Controls (via Tuya Smart Life)
Product Dimensions	4.57"D x 4.57"W x 1.3"H
Item Weight	4.2 ounces
Relay Output	16A
Batteries Required	No

9. Warranty and Support

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official WenzhiIoT website. Keep your purchase receipt as proof of purchase.

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