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WenzhiloT WZ-M100-C-ZB-24G

WenzhiloT Zigbee 24GHz MmWave Presence Sensor User Manual

Model: WZ-M100-C-ZB-24G

1. Product Overview

The WenzhiloT Zigbee 24GHz MmWave Presence Sensor is an advanced smart home device designed for accurate human presence detection. Utilizing 24GHz radar technology, it can detect various states including human presence, static presence, micro-motion, and general movement. This sensor also integrates luminance detection, allowing for smart scene linkage with other devices in your smart home ecosystem. It supports integration with Tuya Smart Life, Home Assistant, and Zigbee2mqtt platforms.

Key features include:

- **24GHz MmWave Radar:** Offers higher range detection accuracy (±10cm) and faster response compared to 5.8GHz radar, suitable for demanding scenarios.
- **Comprehensive Human Detection:** Detects presence, static states (e.g., sleeping), micro-motion, and general movement.
- **Luminance Detection:** Monitors ambient light intensity for smart automation, such as controlling lights based on brightness changes.
- **Adjustable Settings:** Customizable sensitivity (1-5), minimum detection range (0.00m), maximum detection range (up to 9m), and delay time (5-15000s).
- **Zigbee Connectivity:** Requires a Tuya Zigbee gateway for stable signal and integration into whole-house intelligence systems.
- **Zigbee2mqtt Support:** New feature allows setting data reporting intervals to reduce network noise without affecting real-time synchronization of presence state changes.
- **Ceiling Mount Design:** Designed for discreet installation, powered directly by AC 80-240V.



Top-down view of the WenzhiloT Zigbee 24GHz MmWave Presence Sensor, designed for ceiling mounting.

2. Safety Information

Please read and understand all safety instructions before installation and use. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Installation:** Installation should be performed by a qualified electrician or in accordance with local electrical codes. Ensure power is disconnected at the circuit breaker before wiring.
- **Voltage:** This device operates on AC 80-240V. Verify your power supply matches this requirement.
- **Indoor Use Only:** This sensor is designed for indoor environments. Do not expose to moisture, extreme temperatures, or direct sunlight.
- **Mounting:** Ensure the ceiling mount is securely installed and can support the device's weight.
- **Interference:** Avoid installing near large metal objects or other devices that may cause electromagnetic interference, which could affect sensor performance.

3. Package Contents

Verify that all items are present in your package:

- WenzhiloT Zigbee 24GHz MmWave Presence Sensor
- User Manual
- USB Cable (for certain models or initial setup/testing, though the ceiling mount is AC powered)

4. Specifications

Brand	WenzhiloT
Model Number	WZ-M100-C-ZB-24G
Power Source	Corded Electric (AC 80-240V)
Maximum Range	9 Meters (adjustable)
Mounting Type	Ceiling Mount
Product Dimensions	3.94"D x 3.94"W x 1.57"H
Item Weight	2.11 ounces
Compatible Devices	Tuya Smart Home Devices, Home Assistant, Zigbee2mqtt



Technical drawing displaying the dimensions of the ceiling mount presence sensor.

5. Setup and Installation

5.1 Ceiling Mount Installation

The sensor is designed for ceiling installation, similar to a downlight. Ensure you have access to AC 80-240V power at the installation point.

1. **Power Disconnection:** Before starting, turn off the main power supply at your circuit breaker to prevent electric shock.
2. **Prepare Opening:** Create a circular opening in the ceiling with a diameter between 53-58mm (2.09-2.28 inches).
3. **Wiring:** Connect the AC 80-240V power wires to the sensor's terminals. Typically, the live wire (L) and neutral wire (N) are connected. Refer to the wiring diagram on the device or in the detailed manual.
4. **Insert Sensor:** Gently push the sensor into the prepared opening. The spring clips on the sides will secure it in place.
5. **Restore Power:** Once the sensor is securely installed, restore power at the circuit breaker.

5.2 Pairing with Zigbee Hub

This sensor requires a Tuya Zigbee gateway (hub) to function. Ensure your Zigbee hub is powered on and connected to your network.

1. **Open Tuya Smart Life App:** Launch the Tuya Smart Life application on your smartphone.
2. **Add Device:** Tap the '+' icon or 'Add Device' option.
3. **Select Gateway:** Choose your Zigbee gateway from the list.
4. **Enter Pairing Mode:** The app will instruct you to put the sensor into pairing mode. For this sensor, it typically enters pairing mode automatically upon first power-up or after a power cycle. The indicator light on the sensor may blink to confirm pairing mode.
5. **Confirm Pairing:** The app will search for nearby devices. Once detected, confirm to add the sensor.
6. **Rename Device:** After successful pairing, you can rename the sensor for easy identification within the app.



The sensor requires a Zigbee Hub (not included) and integrates with the Tuya Smart Life app.

This video demonstrates the connection methods for both wall-mount and ceiling-mount versions of the WenzhiIoT 24GHz Presence Sensor, along with an overview of the app's parameter settings.

6. Operating Instructions

Once paired, you can configure and monitor your presence sensor through the Tuya Smart Life app or your integrated smart home platform.

6.1 App Interface Overview

The app interface provides real-time status, current distance, illuminance, and various settings.



The Tuya Smart Life app displays real-time detection data and allows for configuration.

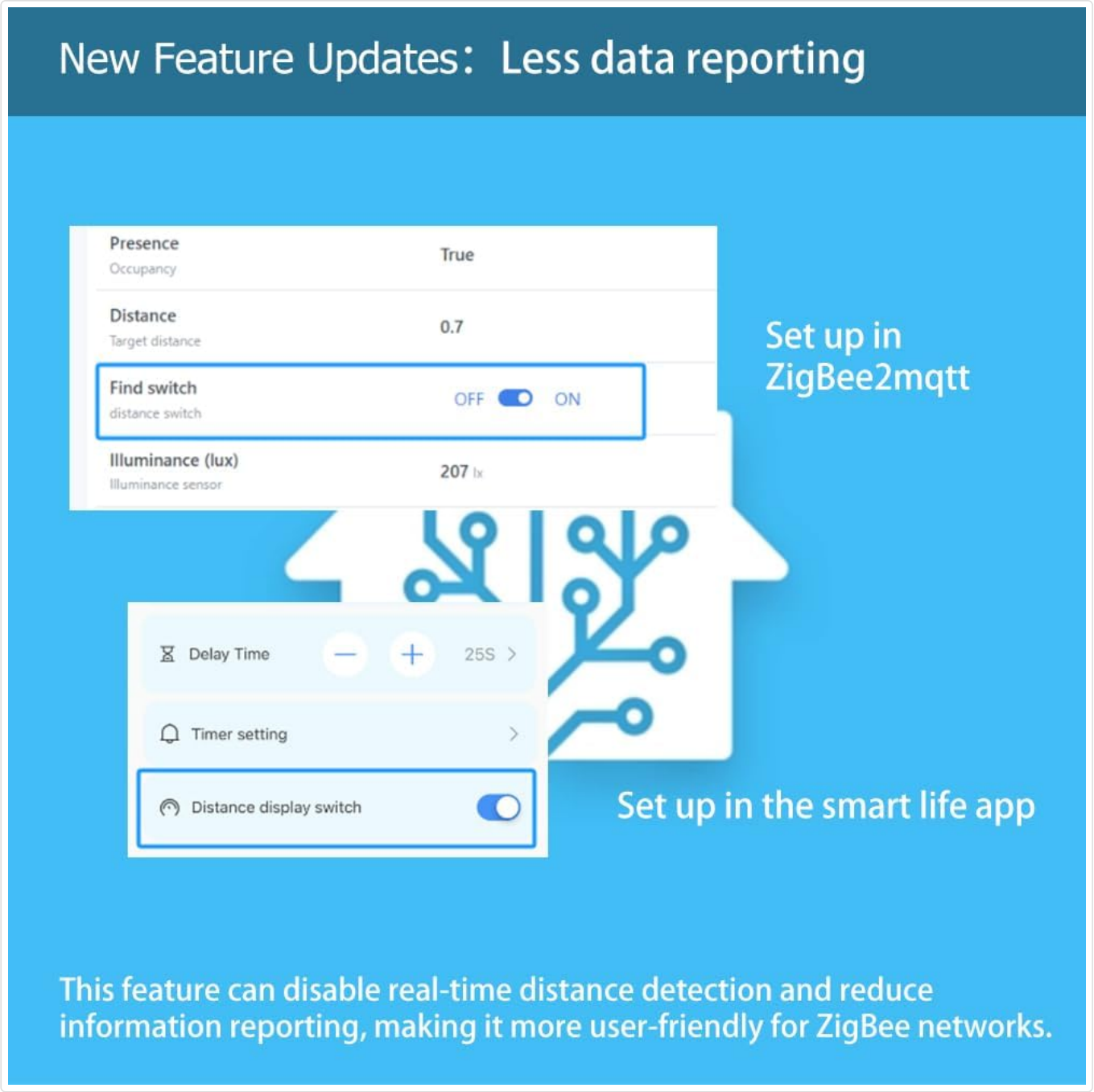
6.2 Adjusting Detection Parameters

Access the sensor's settings in the app to customize its behavior:

- **Sensitivity:** Set the detection sensitivity from 1 to 5 based on your environment and desired responsiveness.
- **Detection Range:** Adjust the minimum and maximum detection distances (e.g., 0.00m to 9m) to define the active detection zone.
- **Delay Time:** Configure the delay time (5-15000s) for how long the sensor reports 'no presence' after movement ceases.
- **Data Reporting Interval (Zigbee2mqtt):** For Zigbee2mqtt users, you can set the data reporting interval to optimize network traffic. This does not affect real-time presence state changes.



The sensor's detection range and angle (100°) can be configured for optimal coverage.

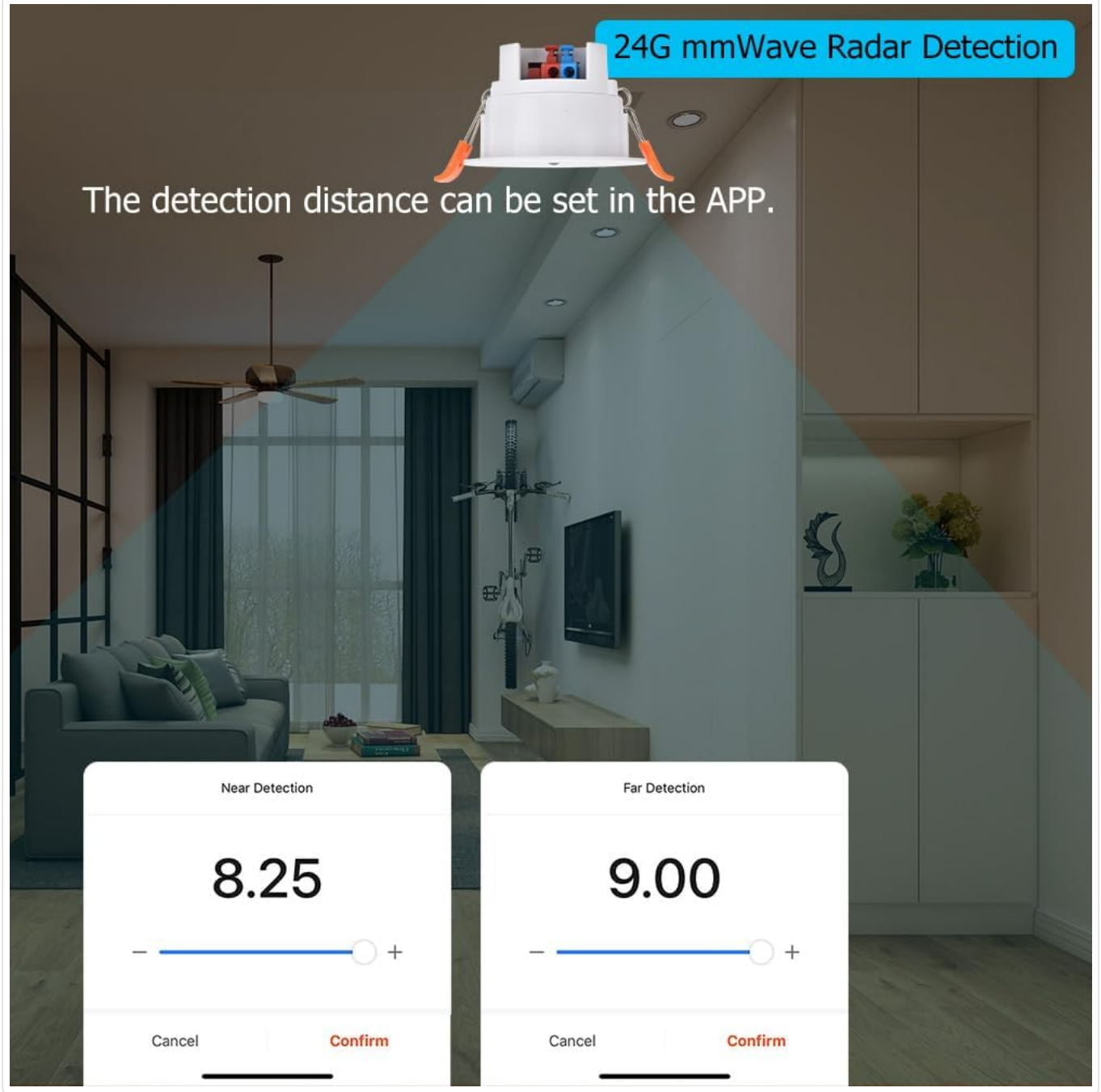


App settings allow for fine-tuning detection parameters and data reporting intervals.

6.3 Smart Scene Linkage

Leverage the sensor's capabilities to create automated routines:

- **Light Control:** Use luminance detection to automatically turn lights ON/OFF based on ambient brightness.
- **Occupancy-based Automation:** Trigger other smart home devices (e.g., HVAC, music) when presence is detected or when a room becomes vacant.
- **Security:** Integrate with security systems to detect unauthorized presence.



The sensor's illumination detection function can be used for smart lighting automation.



The sensor accurately detects various human states, including sleeping, talking, lying down, and blinking.

7. Maintenance

To ensure optimal performance and longevity of your WenzhiIoT Presence Sensor, follow these maintenance guidelines:

- **Cleaning:** Periodically wipe the sensor's surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Firmware Updates:** Check the Tuya Smart Life app regularly for any available firmware updates. Keeping the firmware updated ensures you have the latest features and bug fixes.
- **Environmental Conditions:** Ensure the sensor remains within its specified operating temperature and humidity ranges.

8. Troubleshooting

If you encounter issues with your WenzhiIoT Presence Sensor, refer to the following common troubleshooting steps:

- **Sensor Not Detecting Presence:**
  - Check power supply: Ensure the sensor is receiving continuous AC 80-240V power.
  - Verify Zigbee connection: Confirm the sensor is still paired with your Zigbee hub and the hub is online.
  - Adjust sensitivity: Increase the presence and motion sensitivity settings in the app.
  - Check detection range: Ensure the detection range settings cover the area you wish to monitor.
  - Obstructions: Make sure there are no physical obstructions blocking the sensor's field of view.
- **False Detections:**
  - Reduce sensitivity: Decrease the presence and motion sensitivity settings in the app.
  - Adjust detection range: Narrow the detection range to exclude areas causing false triggers.

- Environmental factors: Ensure the sensor is not exposed to vibrations, drafts, or rapid temperature changes that could be misinterpreted as motion.

- **Connectivity Issues (Zigbee):**
  - Restart hub: Power cycle your Zigbee gateway.
  - Re-pair device: If connectivity is lost, try re-pairing the sensor with your Zigbee hub.
  - Hub proximity: Ensure the sensor is within effective range of your Zigbee hub or a Zigbee router.
  - Zigbee2mqtt issues: If using Zigbee2mqtt and the device is not recognized, refer to the manufacturer's GitHub page for device definition files or contact support.

- **App Not Responding:**
  - Check internet connection: Ensure your smartphone and Zigbee hub have a stable internet connection.
  - Update app: Make sure your Tuya Smart Life app is updated to the latest version.
  - Restart app: Close and reopen the app.

9. Warranty and Support

WenzhiloT products are designed for reliability and performance. For warranty information, technical support, or further assistance, please refer to the contact details provided with your purchase or visit the official WenzhiloT website. Keep your purchase receipt as proof of purchase for warranty claims.

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