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MOES WS-KX-US1-PIR-WH-MS

MOES Smart Motion Sensor Light Switch User Manual

Model: WS-KX-US1-PIR-WH-MS

Introduction | Safety Information | Package Contents | Product Overview | Installation | App & Voice Setup | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

This manual provides detailed instructions for the installation, setup, and operation of your MOES Smart Motion Sensor Light Switch (Model WS-KX-US1-PIR-WH-MS). This device integrates motion detection with smart home capabilities, allowing for automated lighting control and energy savings. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

WARNING: RISK OF ELECTRIC SHOCK. Improper installation can be dangerous or illegal. Always consult a qualified electrician if you are unsure about any part of the installation process.

- **Always turn off power at the circuit breaker before installing or servicing the switch.**
- This device requires a neutral wire for operation. Ensure your electrical box has a neutral wire (typically white) before proceeding with installation.
- Never connect the neutral wire and the live wire reversely. Incorrect wiring will prevent the electrical appliances from working and may cause damage or hazards.
- Install indoors only.
- Do not exceed the maximum load rating of 15 Amps.
- Ensure all wire connections are secure.

3. Package Contents

Verify that all items are present in your package:

- MOES Smart Motion Sensor Light Switch (1 Gang)
- Wall Plate
- Mounting Screws

- Wire Nuts
- User Manual (this document)



Image: MOES Smart Motion Sensor Switch and its retail packaging.

4. Product Overview

The MOES Smart Motion Sensor Light Switch combines traditional light switch functionality with advanced Passive Infrared (PIR) motion sensing and smart home integration.

Key Features:

- **Motion Sensor:** Automatically turns lights on/off based on detected infrared motion.
- **Adjustable Settings:** Customize time delay and sensitivity for motion detection.
- **Daylight Detection:** Prevents lights from turning on during sufficient ambient light conditions.
- **App Control:** Manage the switch remotely via the Tuya Smart Life APP.
- **Voice Control:** Compatible with Amazon Alexa and Google Assistant for hands-free operation.

- **Scene Linkage:** Integrate with other smart home devices for automated scenarios.
- **Energy Saving:** Reduces energy consumption by ensuring lights are off when not needed.
- **Standard Wall Plate Size:** Designed for easy integration into existing electrical boxes.

Product Description

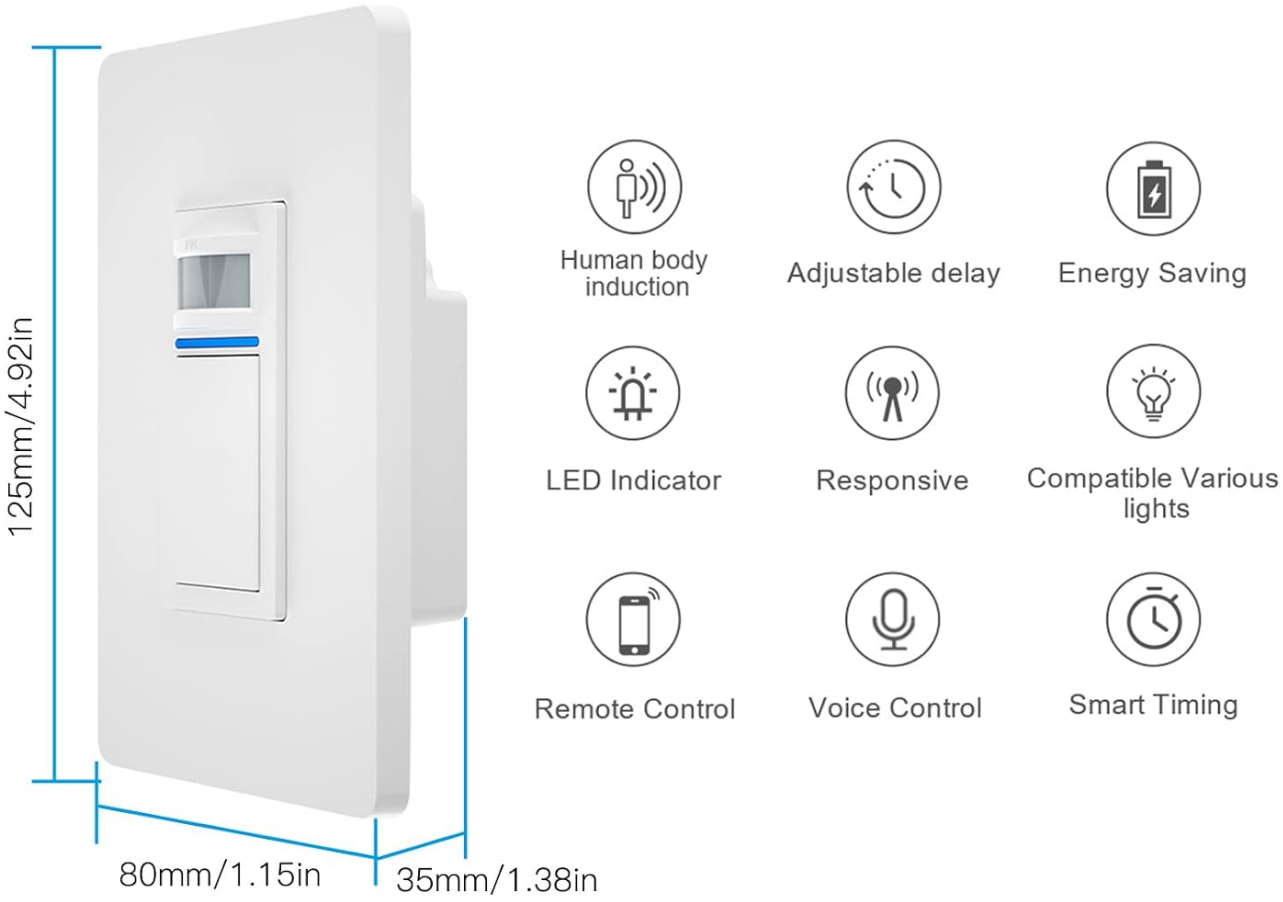


Image: Diagram illustrating the product dimensions (125mm/4.92in height, 80mm/1.15in width, 35mm/1.38in depth) and key features such as human body induction, adjustable delay, energy saving, LED indicator, responsiveness, compatibility with various lights, remote control, voice control, and smart timing.



the built-in motion sensor will not work only if the environment is a little bit dark.

Functional Sensing Effect in the Dark

Image: Illustration of the daylight detection feature. On the left, a bright kitchen scene shows the light staying off. On the right, a darker kitchen scene shows the light turning on, demonstrating that the motion sensor activates only when the environment is sufficiently dark.



Image: Diagram showing the wide sensing range of the PIR motion sensor. It covers a 120-degree sector-shaped area with a range of 3-8 meters, detecting human body infrared induction to automatically light up.

5. Installation

This smart switch requires a neutral wire for installation. If you are unsure about electrical wiring, please consult a qualified electrician.

Wiring Diagram and Steps:

1. **Turn off Power:** Locate your circuit breaker panel and turn off the power to the switch you are replacing. Verify the power is off using a voltage tester.
2. **Remove Old Switch:** Carefully remove the existing wall plate and unscrew the old switch from the electrical box. Disconnect the wires.
3. **Identify Wires:** You will typically find the following wires:
    - **Live Wire (Load/Line):** Usually black, carries power from the breaker.

- **Neutral Wire:** Usually white, required for this smart switch.
- **Ground Wire:** Usually bare copper or green.
- **Load Wire:** Usually black, connects to the light fixture.

4. **Connect New Switch:** Using the provided wire nuts, connect the wires from your electrical box to the corresponding wires on the MOES Smart Motion Sensor Switch.
    - Connect the **Live (Line)** wire from the wall to the **Live (L)** terminal on the switch.
    - Connect the **Load** wire to the **Load (L1)** terminal on the switch.
    - Connect the **Neutral** wire from the wall to the **Neutral (N)** terminal on the switch.
    - Connect the **Ground** wire from the wall to the **Ground (GND)** terminal on the switch.

    Important: Ensure the neutral wire and live wire are not connected reversely.
5. **Mount Switch:** Carefully push the wired switch into the electrical box and secure it with the mounting screws.
6. **Attach Wall Plate:** Install the decorative wall plate.
7. **Restore Power:** Turn the power back on at the circuit breaker.



Image: Diagram showing the wiring connections for the MOES Smart Motion Sensor Switch, highlighting the neutral wire requirement and the use of wire nuts for secure connections within a standard electrical box.

6. App and Voice Control Setup

To unlock the full smart features of your MOES switch, connect it to the Tuya Smart Life APP and integrate with voice assistants.

6.1. Tuya Smart Life APP Connection

1. **Download App:** Download the "Smart Life" or "Tuya Smart" app from the App Store (iOS) or Google Play Store (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 phone is connected to a 2.4GHz Wi-Fi network (5GHz networks are not supported for initial setup).
    - In the app, tap the "+" icon in the top right corner to add a device.
    - Select "Electrical Switch" or "Wall Switch (Wi-Fi)" from the device list.
    - Follow the on-screen instructions to put the switch into pairing mode (usually by pressing and holding the switch button until the indicator light blinks rapidly).
    - Confirm the indicator light is blinking rapidly in the app and enter your Wi-Fi password.
    - The app will search for and connect to the switch. Once connected, you can rename the device.

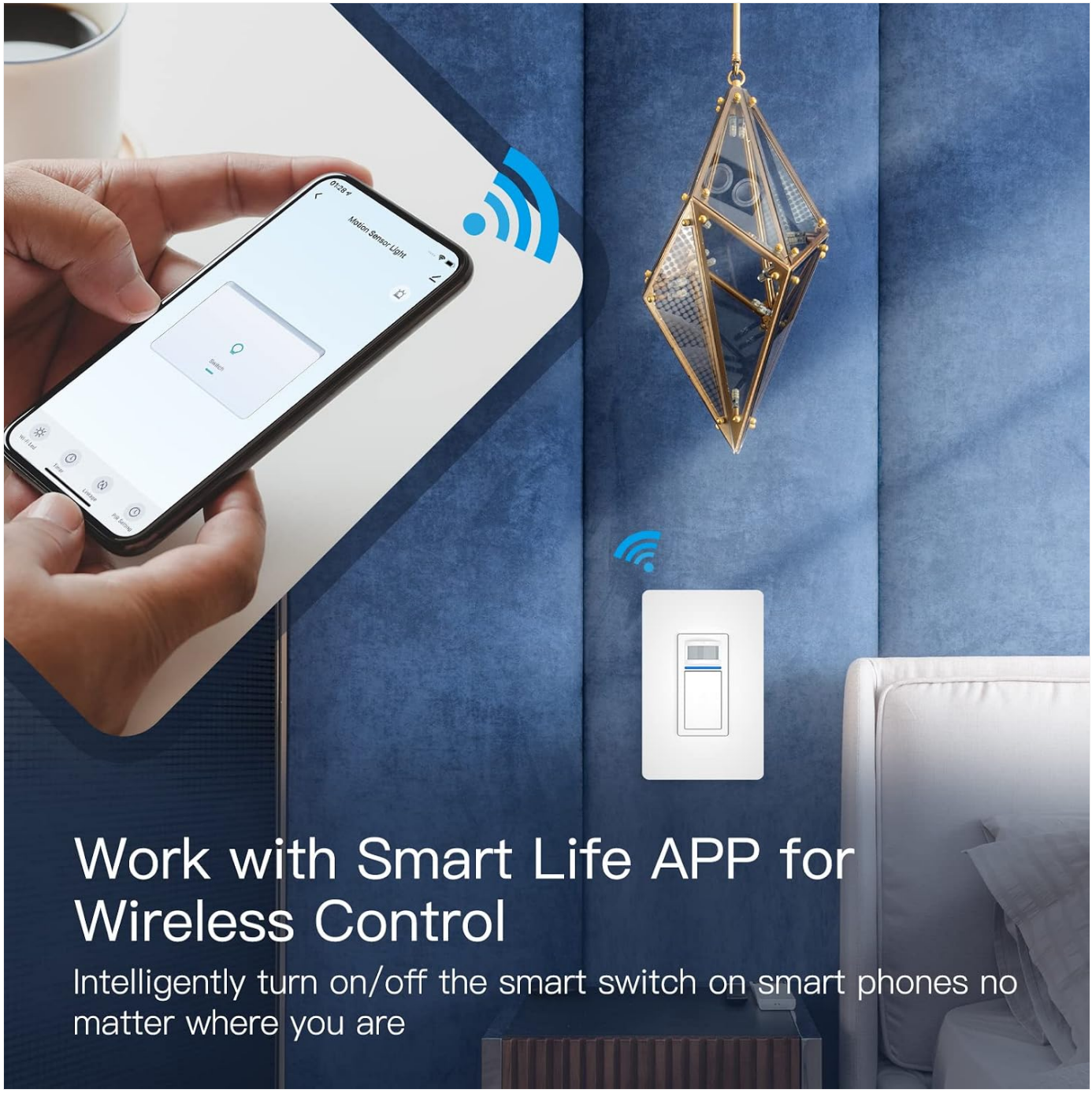


Image: A smartphone displaying the Smart Life app interface, showing control over the MOES Smart Motion Sensor Switch, indicating wireless control from anywhere.

6.2. Voice Assistant Integration (Alexa/Google Assistant)

1. **Link Account:**
    - Open the Amazon Alexa app or Google Home app.
    - Navigate to "Skills & Games" (Alexa) or "Works with Google" (Google Home).
    - Search for "Smart Life" or "Tuya Smart" skill/service.
    - Enable the skill/service and link your Smart Life/Tuya Smart account using your app credentials.
2. **Discover Devices:** Once linked, ask Alexa or Google Assistant to "Discover devices" or manually initiate device discovery in the app.
3. **Control with Voice:** You can now control your light switch using voice commands, e.g., "Alexa, turn on the kitchen light" or "Hey Google, turn off the bedroom light."



Image: An illustration showing a person speaking "Hey Google, turn off kitchen light" to a Google Assistant device, demonstrating voice control functionality for the smart light switch.

7. Operation

The MOES Smart Motion Sensor Light Switch offers both manual and automated control options.

7.1. Manual Control

Press the physical button on the switch to manually turn the connected light on or off, similar to a traditional light switch. This manual override can be used even when motion sensing is active.

7.2. Motion Sensor Operation

The built-in PIR sensor detects infrared motion within its coverage area (3-8 meters, 120-degree sector). When motion is detected, the light will turn on automatically, provided the ambient light conditions are below the set illuminance threshold.



Image: A visual representation of the WiFi PIR Occupancy Sensor Switch automatically turning on the light when a person is detected entering a room.

7.3. App Settings for Motion Sensor

Within the Smart Life/Tuya Smart app, you can customize the motion sensor's behavior:

- **PIR Setting:** Enable or disable the Passive Infrared (PIR) motion detection feature.
- **Motion Delay Time:** Set the duration (adjustable from 2 seconds to 60 minutes) before the switch turns off the lights after no motion is detected. This helps prevent lights from turning off prematurely.
- **Motion Sensitivity:** Adjust the sensitivity of the motion sensor (e.g., Low, Medium, High) to suit your environment and prevent false triggers.
- **Illuminance Threshold:** Define the ambient light level at which the PIR sensor becomes active. If the room is bright enough, the sensor will not trigger the light, saving energy.
- **Illuminance Switch:** Toggle this setting to enable or disable illuminance-based activation.
- **Restart Status:** Configure the switch's behavior after a power interruption (e.g., Power-off, Last Status, On).

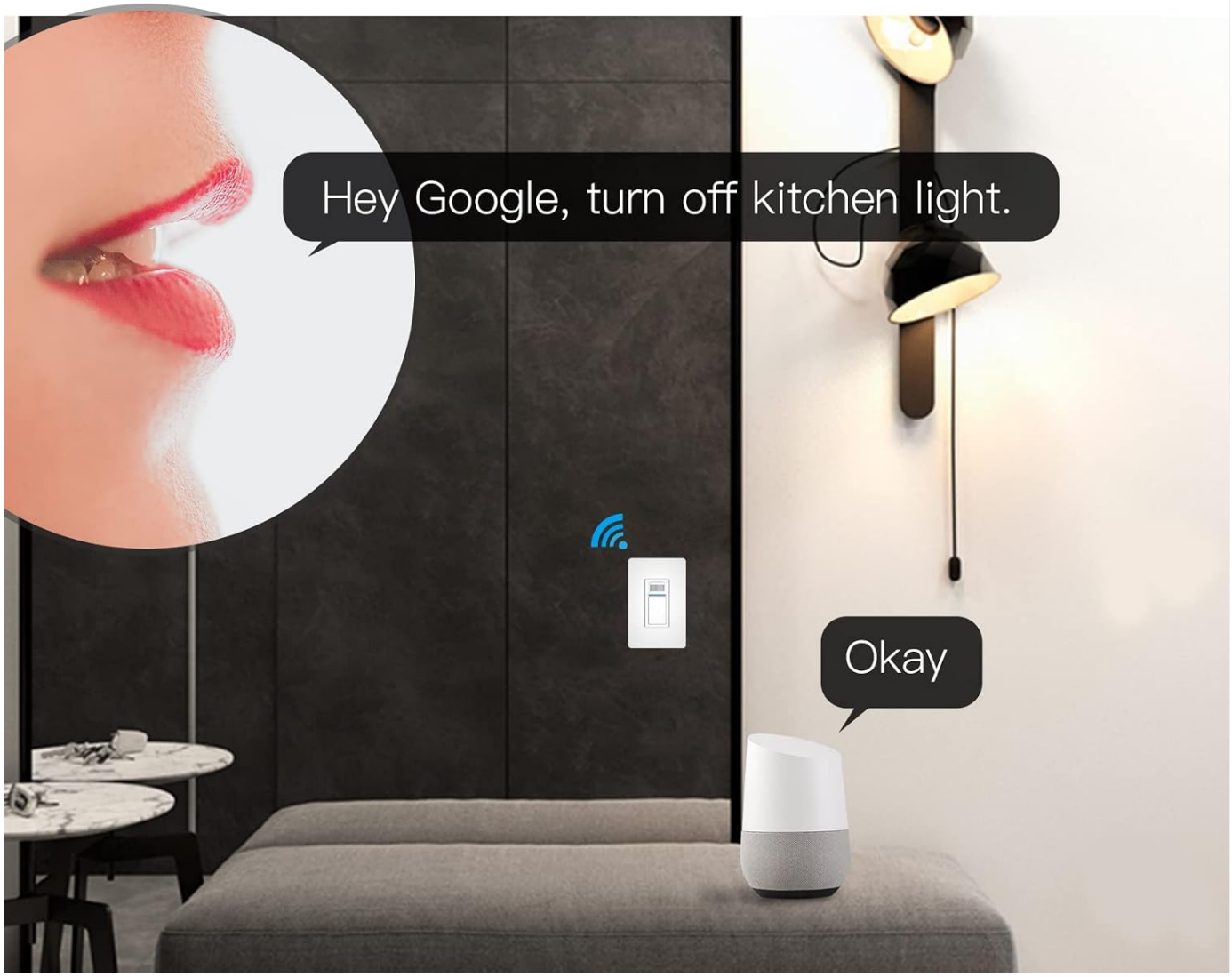


Image: A split image showing the smart switch in a room. The top panel shows a person in the room with lights off, while the bottom panel shows a person leaving the room with lights on. The central image displays a smartphone with the app's "Induction delay off" setting, adjustable from 2 seconds to 60 minutes, for energy saving. This illustrates how the light turns on with motion and off after a delay.

7.4. Scene Linkage

Utilize the Smart Life/Tuya Smart app to create smart scenes. For example, you can set up a scene where if the motion sensor detects activity, other smart lights in the room or connected devices are also activated.

8. Maintenance

- **Cleaning:** Gently wipe the switch and wall plate with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Firmware Updates:** Periodically check the Smart Life/Tuya Smart app for available firmware updates to ensure optimal performance and security.
- **Environmental Conditions:** Ensure the switch is not exposed to excessive moisture or extreme temperatures, as this can affect its performance and lifespan.

9. Troubleshooting

If you encounter issues with your MOES Smart Motion Sensor Light Switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on/off manually.	No power to the switch; incorrect wiring; faulty switch.	Check circuit breaker. Verify wiring connections (Live, Load, Neutral, Ground). Ensure neutral and live wires are not reversed. If issues persist, contact support.
Motion sensor not detecting movement or lights not turning on automatically.	Incorrect app settings (PIR disabled, high illuminance threshold, low sensitivity); obstruction; sensor malfunction.	• Check app settings: Ensure PIR is enabled, illuminance threshold is appropriate for desired operation (e.g., lower for dark rooms), and sensitivity is set to High. • Ensure no physical obstructions are blocking the sensor's view. • Verify motion speed is within detection range (0.6~1.5m/s). • If the room is too bright, the daylight detection feature may prevent activation.
Lights turn off too quickly or stay on too long.	Motion Delay Time setting is incorrect.	Adjust the "Motion Delay Time" in the Smart Life/Tuya Smart app to your preferred duration (2 seconds to 60 minutes).
Cannot connect to Wi-Fi or app.	Incorrect Wi-Fi band; wrong password; switch not in pairing mode; weak signal.	• Ensure your router is broadcasting a 2.4GHz Wi-Fi network. • Confirm you are entering the correct Wi-Fi password. • Put the switch into pairing mode (indicator light blinking rapidly). • Move closer to the Wi-Fi router during setup. • Restart your router and try again.
Voice control not working.	Smart Life/Tuya Smart skill not enabled or linked; device not discovered; incorrect command.	• Verify the Smart Life/Tuya Smart skill is enabled and linked in your Alexa/Google Home app. • Ask Alexa/Google to "Discover devices." • Use the exact device name you set in the Smart Life app.

10. Specifications

Feature	Detail
Brand	MOES

Feature	Detail
Model Number	WS-KX-US1-PIR-WH-MS
Product Dimensions	4.92 x 1.15 x 1.38 inches
Weight	7.05 ounces
Operation Mode	Automatically, Off
Current Rating	15 Amps
Operating Voltage	125 Volts
Contact Type	Normally Closed
Connector Type	Wireless (Wi-Fi 2.4GHz)
Terminal	Screw
Circuit Type	2-way
Actuator Type	PIR (Passive Infrared)
Motion Detection Speed	0.6~1.5 m/s
Motion Detection Angle	120 degrees
Motion Detection Range	3-8 meters
Neutral Wire Required	Yes

11. Warranty and Support

Your MOES Smart Motion Sensor Light Switch comes with a comprehensive warranty and support:

- **Warranty:** Full 2-year warranty from the date of purchase.
- **Refund Guarantee:** 60-day refund guarantee from the date of purchase.
- **Customer Support:** For technical assistance, troubleshooting, or warranty claims, please contact MOES customer support through your retailer's platform or the contact information provided on the MOES official website.

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