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**MOES WRS-US1-L110-WH-MS**

# MOES 2nd Generation WiFi RF433 Touch Wall Single Wire Smart Switch User Manual

Model: WRS-US1-L110-WH-MS

## 1. Product Overview

The MOES 2nd Generation WiFi RF433 Touch Wall Smart Switch is designed for convenient control of your lighting. This single-wire switch does not require a neutral wire for installation, making it suitable for various electrical setups. It supports Wi-Fi connectivity for app control via Smart Life/Tuya, RF433 for remote control, and voice control through Alexa and Google Home. The touch-sensitive panel offers a modern and intuitive user experience.




Image 1.1: The MOES Smart Switch and its retail packaging, highlighting Wi-Fi and RF433 capabilities, and compatibility with Alexa and Google Assistant.

## 2. Important Safety Information and Installation Requirements

Please read all safety information and installation instructions carefully before proceeding. Improper installation can lead to electric shock or device damage. Always consult a qualified electrician if you are unsure about any part of the installation process.

- **Power Off:** Always ensure the main power supply is turned off at the circuit breaker before performing any electrical work.
- **Voltage:** This device is designed for 110V systems. Verify your electrical system's voltage before installation.
- **Indoor Use Only:** This switch is intended for indoor use in dry locations.
- **Load Requirements:** Ensure connected bulbs have a rated power of 5W or greater.
- **Wi-Fi Compatibility:** The switch operates only on a 2.4GHz Wi-Fi network. It is not compatible with 5GHz networks.
- **Not for 3-Way Use:** This switch is designed for single-pole applications and cannot be used in 3-way switch configurations.
- **Capacitance Requirement:** A capacitance module (included) must be connected to the bulb for proper operation,

especially in single-wire setups without a neutral wire.

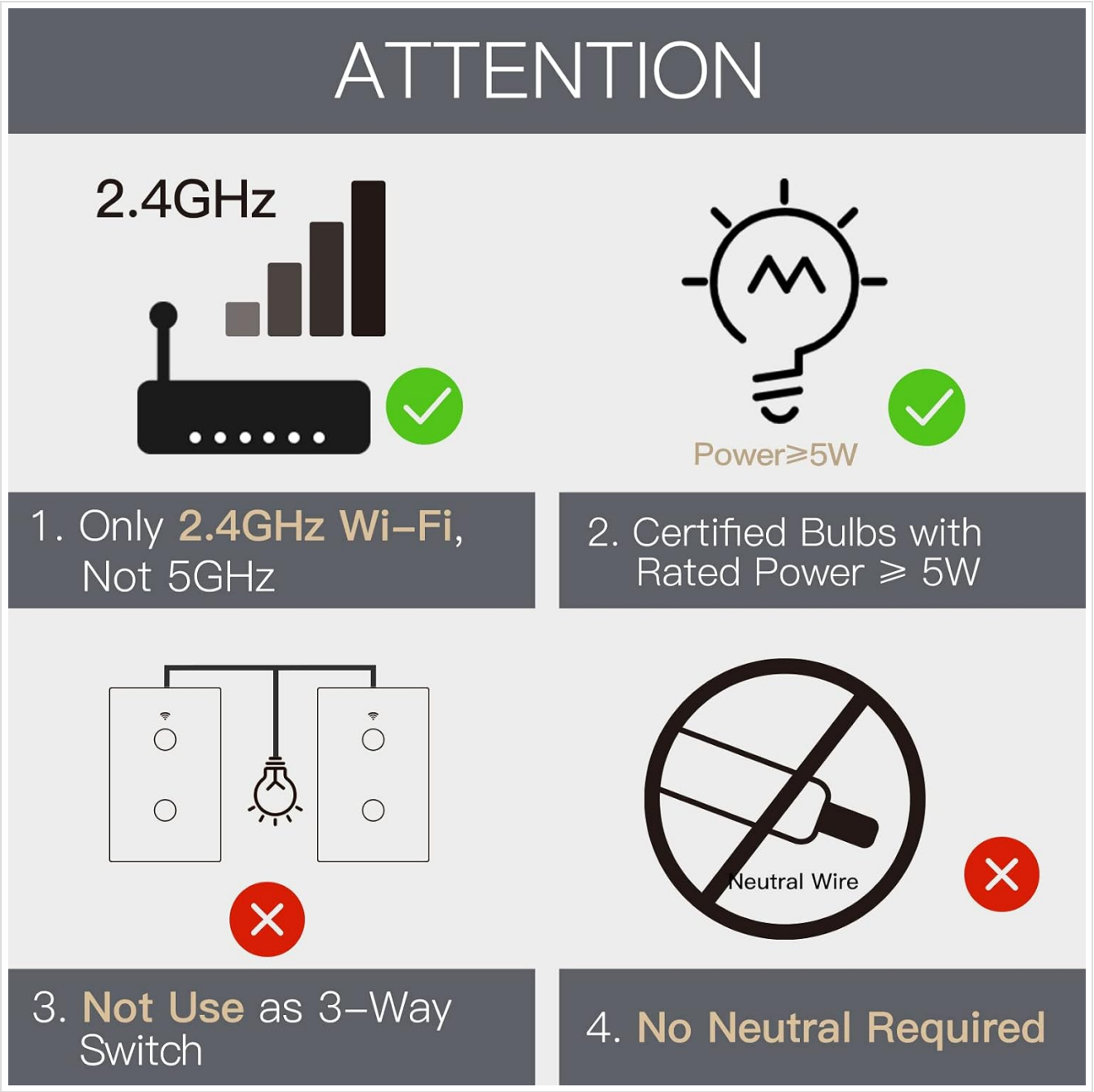



Image 2.1: Visual representation of key installation considerations, including 2.4GHz Wi-Fi, minimum 5W bulb power, single-pole use only, and no neutral wire requirement.

## 3. Installation Guide

### 3.1 Wiring Diagram

The MOES Smart Switch is a single-fire (no neutral) switch. Follow the diagram below for correct wiring. The capacitance module is crucial for stable operation and must be connected across the load (bulb).

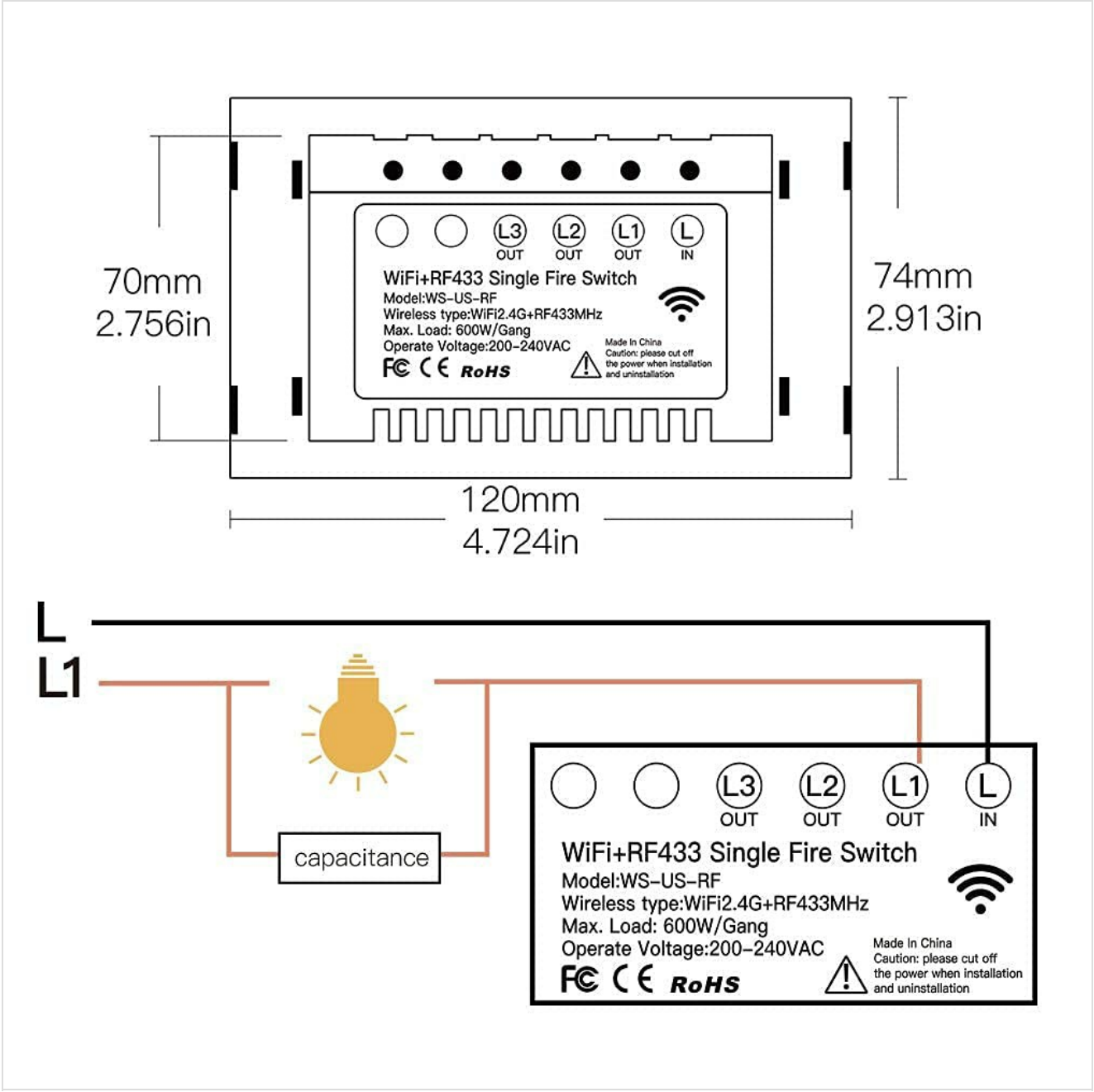



Image 3.1: Detailed wiring diagram showing connections for the MOES Single Fire Switch, including the capacitance module connected in parallel with the light bulb.

## 3.2 Step-by-Step Installation

1. **Turn Off Power:** Locate the circuit breaker controlling the light switch and turn off the power. Verify power is off using a voltage tester.
2. **Remove Old Switch:** Carefully remove the existing wall plate and unscrew the old switch from the wall box. Disconnect the wires.
3. **Connect Wires:**
    - Connect the live wire (L) from your wall box to the 'L IN' terminal on the MOES switch.
    - Connect the load wire (L1) going to your light fixture to the 'L1 OUT' terminal on the MOES switch.
    - If your switch has multiple gangs (e.g., 2-gang), connect the respective load wires to L2 OUT, L3 OUT, etc.
4. **Install Capacitance:** Connect the included capacitance module directly across the light bulb terminals. This is essential for stable operation of single-wire switches.
5. **Mount Switch:** Secure the MOES switch into the wall box using the provided screws. Attach the new wall plate.
6. **Restore Power:** Turn the power back on at the circuit breaker. The switch indicator light should illuminate.

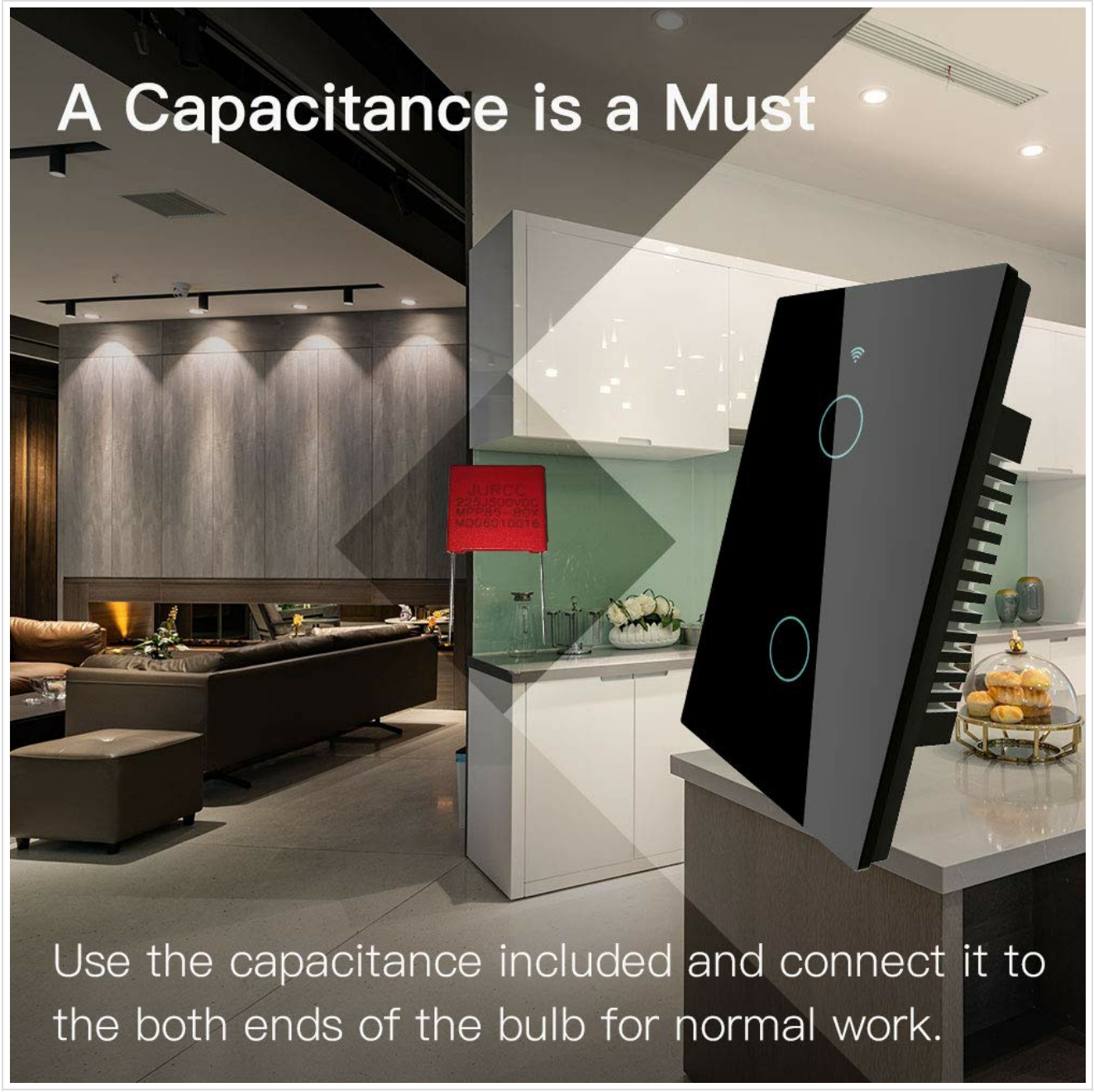



Image 3.2: Illustration emphasizing the necessity of connecting the capacitance module to the light bulb for correct functionality of the single-wire switch.

## 4. App Configuration (Smart Life/Tuya)

The MOES Smart Switch is compatible with the Smart Life and Tuya Smart applications, available on both iOS and Android devices.

1. **Download App:** Search for 'Smart Life' or 'Tuya Smart' in your device's app store and download it.
2. **Register/Login:** Open the app and register for a new account or log in with an existing one.
3. **Add Device:** Tap the '+' icon in the top right corner of the app to add a new device. Select 'Lighting' > 'Switch (Wi-Fi)'.
4. **Pairing Mode:** On the MOES switch, press and hold any touch button for approximately 5-10 seconds until the Wi-Fi indicator light on the switch starts blinking rapidly. This indicates pairing mode.
5. **Connect to Wi-Fi:** In the app, confirm the indicator is blinking rapidly. Enter your 2.4GHz Wi-Fi network password. The app will then search for and connect to the switch.
6. **Rename Device:** Once connected, you can rename the switch for easier identification (e.g., 'Living Room Light').

## 5. Operation

The MOES Smart Switch offers multiple control methods for your convenience.

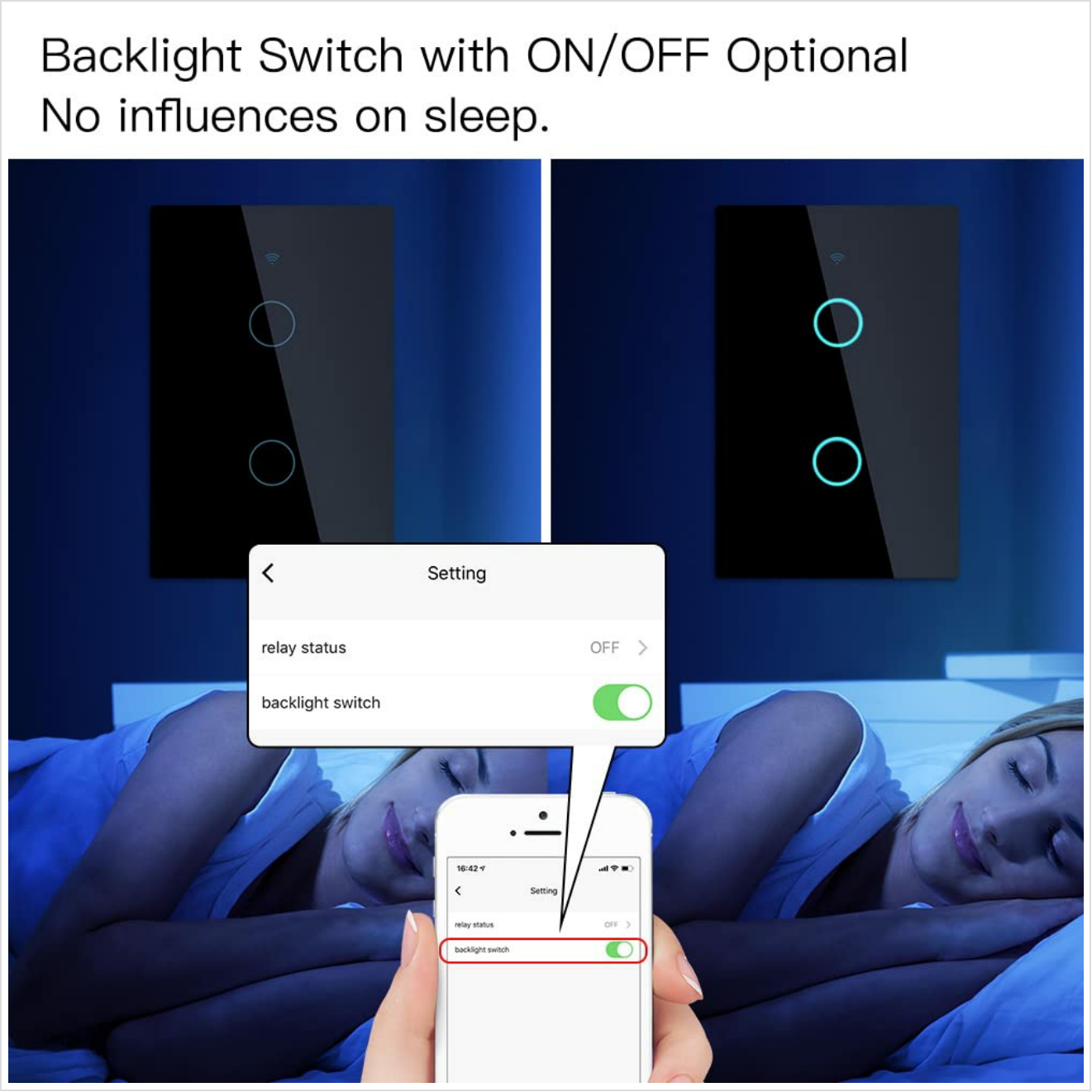



Image 5.1: Overview of various control methods including RF433 remote, voice control via smart assistants, Smart Life/Tuya app, and direct touch control.

## 5.1 Touch Control

Simply touch the corresponding button on the glass panel to turn the light ON or OFF. The touch interface is responsive and designed for ease of use.

## 5.2 App Control (Smart Life/Tuya)

After successful pairing, use the Smart Life or Tuya Smart app on your smartphone to remotely control your lights from anywhere with an internet connection. You can turn lights on/off, set schedules, and access advanced features.

## 5.3 Voice Control (Alexa & Google Home)

Integrate your MOES switch with Amazon Alexa or Google Home for hands-free voice control. Link your Smart Life/Tuya account in the Alexa or Google Home app, then use commands like:
*"Alexa, turn off the living room light."*
*"Hey Google, turn on the bedroom light."*

### 5.4 RF433 Remote Control

The switch supports RF433MHz remote control for local wireless operation without Wi-Fi. Pair a compatible RF433 remote (sold separately) according to its instructions to control the switch.

## 6. Advanced Features

### 6.1 Backlight Switch ON/OFF Optional

You can adjust the backlight status of the touch panel through the Smart Life/Tuya app. This allows you to turn off the backlight if it interferes with sleep or prefer a darker room environment.

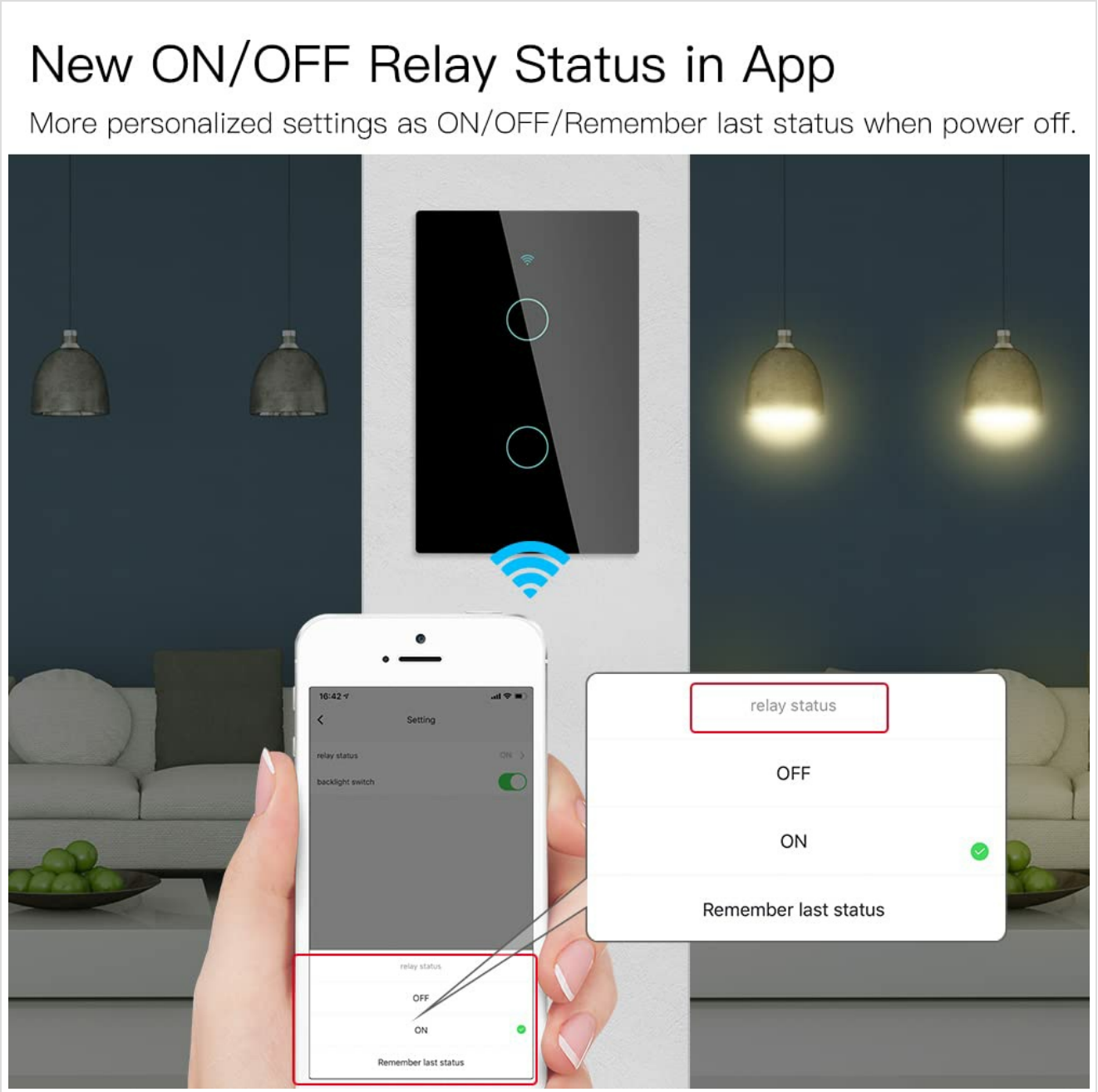



Image 6.1: Screenshot from the Smart Life/Tuya app showing the option to toggle the backlight switch ON or OFF, demonstrating how to prevent light disturbance during sleep.

### 6.2 ON/OFF Relay Status in App

The app provides options to configure the switch's behavior after a power outage. You can set it to:

- **OFF:** The light remains off after power is restored.
- **ON:** The light turns on after power is restored.
- **Remember last status:** The light returns to its state before the power outage.




Image 6.2: App interface displaying options to set the relay status (OFF, ON, Remember last status) for the switch, allowing personalized power-on behavior.

## 6.3 Device Grouping and Sharing

Within the Smart Life/Tuya app, you can create groups of multiple smart switches to control them simultaneously. You can also share control of individual devices or groups with family members, allowing everyone in the household to manage the smart lighting.

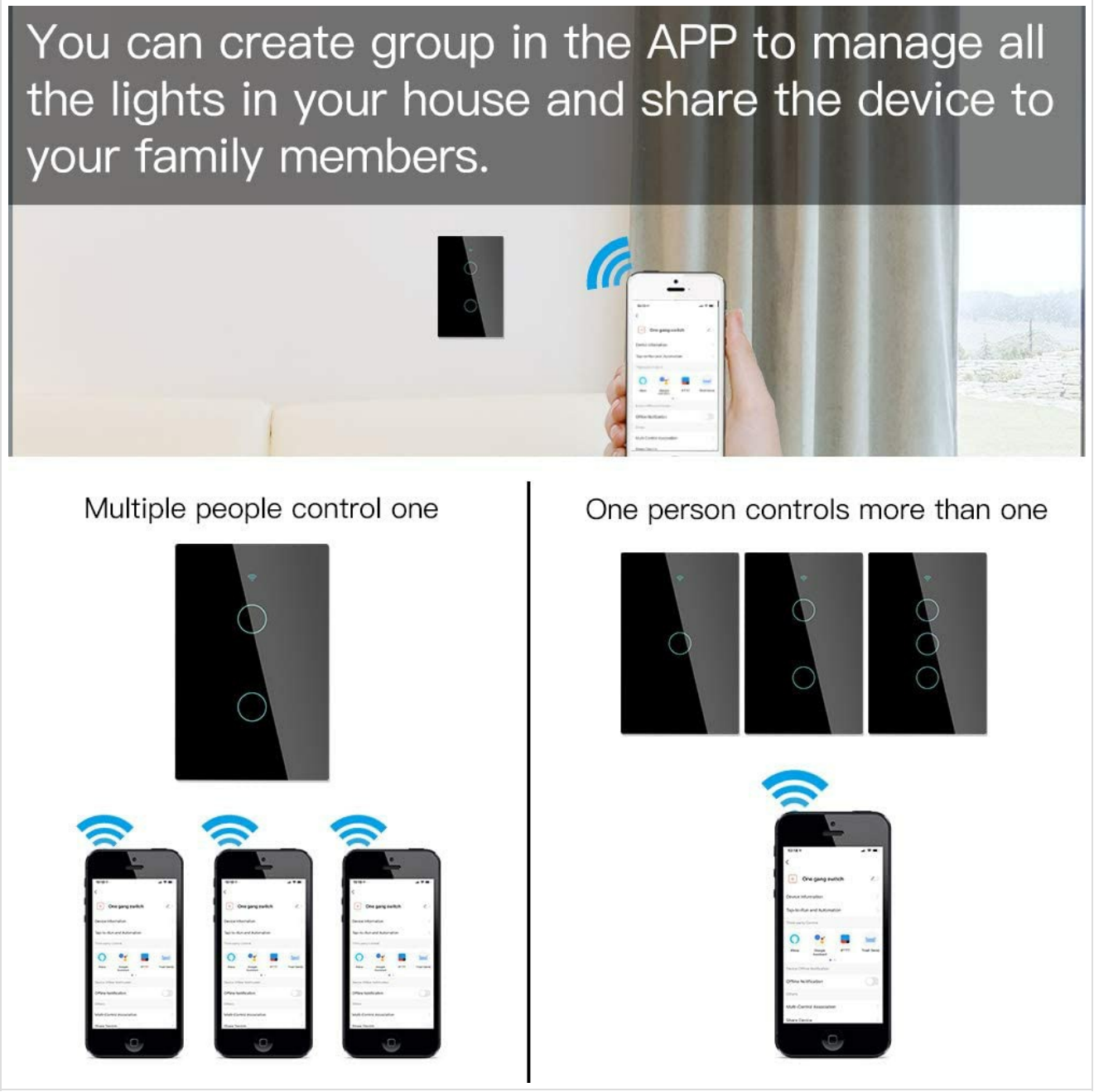



Image 6.3: Visual demonstrating the app's capability to group multiple switches for unified control and to share device access with other users.

## 7. Troubleshooting

- **Switch Not Responding:** Check if the circuit breaker is ON. Ensure the capacitance module is correctly installed across the bulb.
- **Wi-Fi Connection Issues:** Verify your Wi-Fi network is 2.4GHz. Ensure the switch is in pairing mode (rapidly blinking Wi-Fi indicator). Move the switch closer to your Wi-Fi router if signal is weak.
- **App Cannot Find Device:** Confirm your phone is connected to the same 2.4GHz Wi-Fi network. Try resetting the switch to pairing mode.
- **Voice Control Not Working:** Ensure your Smart Life/Tuya account is correctly linked to Alexa or Google Home. Check the device name in the app and use clear voice commands.
- **Light Flickering:** This often indicates an issue with the capacitance module or the bulb's compatibility. Ensure the capacitance is correctly installed and consider using a different bulb (rated 5W or higher).

## 8. Specifications

| Feature | Specification |
|---|---|
| Model Number | WRS-US1-L110-WH-MS |
| Operating Voltage | 110 Volts |
| Operation Mode | ON-OFF |
| Switch Type | Touch Switch |
| Wireless Type | WiFi 2.4GHz + RF433MHz |
| Max. Load | 600W/Gang |
| Material | Acrylonitrile Butadiene Styrene |
| Product Dimensions | 11.99 x 7.39 x 3.81 cm (4.72 x 2.91 x 1.50 inches) |
| Mounting Type | Wall Mount |
| Circuit Type | 2-way (Single Pole) |

## 9. Warranty and Support

MOES products come with a standard manufacturer's warranty. For specific warranty details, technical support, or assistance with installation and troubleshooting, please refer to the warranty card included with your product or visit the official MOES website. You may also contact MOES customer service directly through the contact information provided on their website or within the Smart Life/Tuya app.

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