MOES WS-US-L

MOES WiFi Smart Light Switch (1-Gang) Instruction Manual

Model: WS-US-L

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MOES WiFi Smart Light Switch (1-Gang). This smart switch is designed to enhance your home lighting control with convenience and smart features.

Key Features:

- Supports both no-neutral wire and with-neutral wire configurations.
- No hub required; connects directly to your 2.4GHz Wi-Fi network.
- Compatible with Alexa and Google Assistant for voice control.
- Remote control via smartphone application.
- Timer and scheduling functions for automated lighting.
- Space-saving design fits most standard wall boxes.

Image 1.1: MOES WiFi Smart Light Switch packaging and the 1-gang switch unit.

2. SAFETY INFORMATION

- Always turn off power at the circuit breaker before installation or maintenance.
- If you are unsure about electrical wiring, consult a qualified electrician.
- This switch is designed for indoor use only.
- Do not exceed the maximum load ratings specified in the product specifications.

3. INSTALLATION GUIDE

3.1. Pre-Installation Checklist

- Ensure your home has a 2.4GHz Wi-Fi network. 5GHz networks are not supported.
- Confirm the existing wiring in your wall box (neutral wire present or not).
- Tools required: Screwdriver, wire strippers, voltage tester.

3.2. Wiring Instructions

The MOES Smart Light Switch supports both neutral wire and no-neutral wire configurations. Please identify your wiring type before proceeding.

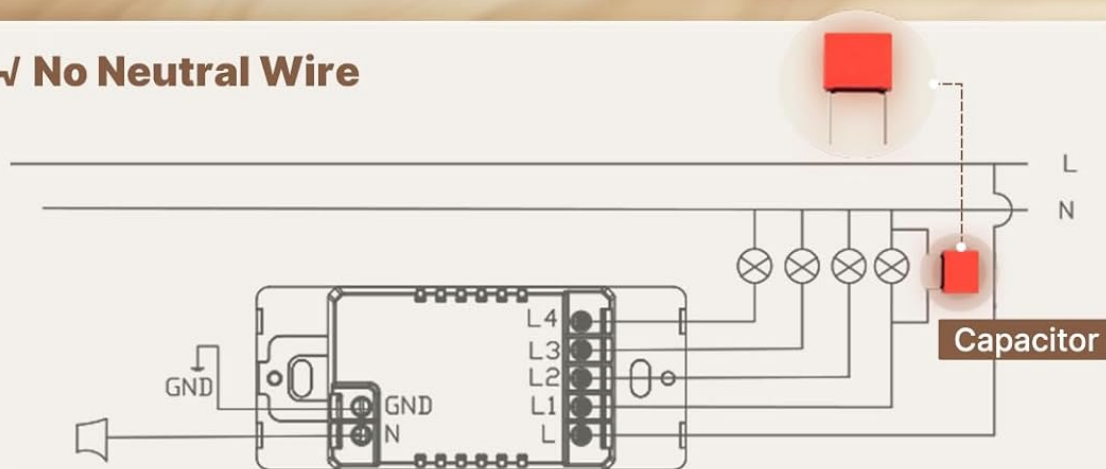### 3.2.1. No-Neutral Wire Installation

If your wall box does not have a neutral wire, a capacitor (included in the package) is required for proper operation. This capacitor must be connected across the light bulb terminals.

1. **Turn off power:** Locate your circuit breaker and turn off the power to the switch you are replacing. Verify power is off with a voltage tester.
2. **Identify wires:** In your wall box, identify the Line (Live) wire, Load wire(s), and Ground wire.
3. **Connect wires to the switch:**

   - Connect the Line wire to the 'L' terminal on the smart switch.
   - Connect the Load wire(s) to the 'L1' (OUT) terminal. For 1-gang switches, typically only L1 is used.
   - Connect the Ground wire to the 'GND' terminal.

4. **Install Capacitor:** Connect the provided capacitor across the light bulb terminals (between the live and neutral wires at the light fixture). This is crucial for no-neutral setups to ensure stable power to the smart switch.
5. **Mount the switch:** Secure the smart switch into the wall box and attach the faceplate.
6. **Restore power:** Turn the power back on at the circuit breaker.

No Neural Wire Require

√ **No Neutral Wire**

L

N

L4
L3
L2
L1
L

GND

GND
N

Capacitor

Note:
Capacitor is a must for no neutral wiring. (Capacitor included in the package)

Image 3.1: Wiring diagram for no-neutral wire installation, showing capacitor connection.
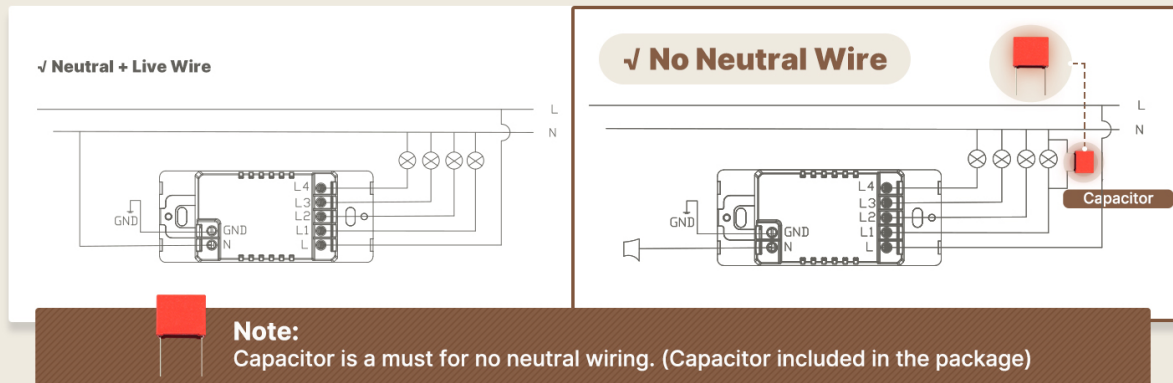
Two Wiring Optional

√ Neutral + Live Wire

√ No Neutral Wire

Capacitor

Note:
Capacitor is a must for no neutral wiring. (Capacitor included in the package)

Image 3.2: Comparison of Neutral + Live Wire and No Neutral Wire diagrams, highlighting the capacitor for no-neutral setups.

3.2.2. With-Neutral Wire Installation

If your wall box has a neutral wire, the installation is straightforward.

1. **Turn off power:** Locate your circuit breaker and turn off the power to the switch you are replacing. Verify power is off with a voltage tester.
2. **Identify wires:** In your wall box, identify the Line (Live) wire, Neutral wire, Load wire(s), and Ground wire.
3. **Connect wires to the switch:**

   - Connect the Line wire to the 'L' terminal on the smart switch.
   - Connect the Neutral wire to the 'N' terminal.
   - Connect the Load wire(s) to the 'L1' (OUT) terminal. For 1-gang switches, typically only L1 is used.
   - Connect the Ground wire to the 'GND' terminal.

4. **Mount the switch:** Secure the smart switch into the wall box and attach the faceplate.
5. **Restore power:** Turn the power back on at the circuit breaker.

Electricity Safety & Added Convenience

The ground and neutral wires use the outgoing wire mode, which is convenient for wiring and improves the safety of switch wiring.

Image 3.3: Rear view of the MOES Smart Switch showing wiring terminals for Line, Neutral, Load, and Ground connections.

3.3. App Pairing

1. **Download the App:** Download the "Smart Life" or "MOES" app from your smartphone's app store.
2. **Register/Login:** Create an account or log in to the app.
3. **Add Device:** Tap the '+' icon in the top right corner of the app to add a new device.
4. **Select Device Type:** Choose "Electrical" then "Light Switch" or "Switch (Wi-Fi)".
5. **Enter Wi-Fi Details:** Ensure your phone is connected to a 2.4GHz Wi-Fi network. Enter your Wi-Fi password.

6. **Pairing Mode:** The switch should automatically enter pairing mode (indicator light blinking rapidly). If not, press and hold the switch button for 5-10 seconds until it blinks rapidly.

7. **Complete Pairing:** Follow the on-screen instructions in the app to complete the pairing process. Once connected, you can rename the switch.

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Video 3.1: A visual guide demonstrating the general installation process for the MOES Smart Light Switch, including wiring and app pairing. (Note: Video may show a multi-gang switch, but principles apply to 1-gang).

4. OPERATING INSTRUCTIONS

4.1. Manual Control

Press the physical button(s) on the switch to turn the connected light(s) on or off. The switch features high-quality buttons for reliable operation.

Image 4.1: Close-up of the MOES Smart Switch highlighting its high-quality button design.

4.2. App Control (Remote Control)

Once paired with the app, you can control your lights from anywhere using your smartphone.

- Open the "Smart Life" or "MOES" app.
- Select your smart switch from the device list.
- Tap the on/off icons to control your lights.

Use MOES APP

Control your light anywhere at any time.

Image 4.2: Demonstrates remote control functionality of the smart switch via the mobile application.

4.3. Voice Control

The switch is compatible with Amazon Alexa and Google Assistant for hands-free control.

- **Link Account:** In your Alexa or Google Home app, link your "Smart Life" or "MOES" account.
- **Discover Devices:** Ask your voice assistant to discover new devices.
- **Voice Commands:** Use commands like "Alexa, turn on the living room light" or "Hey Google, turn off the bedroom light."

Image 4.3: Setup showing smart speakers (Alexa, Google Home) interacting with the smart switch for voice control.

4.4. Timer and Schedule Functions

Automate your lighting with customizable timers and schedules through the app.

- **Schedule:** Set specific times for lights to turn on or off daily or on selected days.
- **Countdown:** Set a countdown timer for lights to turn off after a set duration.
- **Cycle Timing:** Configure lights to cycle on and off at regular intervals.

Image 4.4: Visual representation of timer and countdown settings available in the smart home application.

4.5. Indicator Light Mode

The switch features an indicator light that can be configured via the app to show ON/OFF status or switch location in the dark.
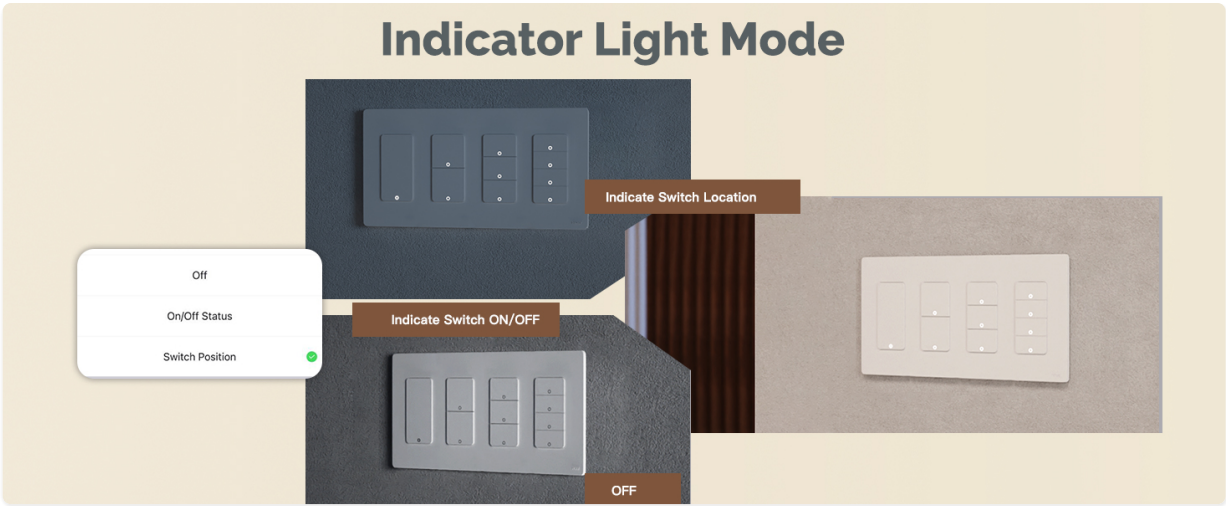
Image 4.5: Illustrates different indicator light modes, such as showing ON/OFF status or switch location.

4.6. Relay Status Settings

Configure the switch's behavior after a power outage (Power-off, Power-on, or Restart Memory) through the app settings.

Image 4.6: Screenshot of the app interface for configuring relay status settings after a power interruption.

5. MAINTENANCE

- Clean the switch faceplate with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- Regularly check for app updates to ensure optimal performance and security.
- Ensure your Wi-Fi network is stable and within range of the switch.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Switch not responding to app/voice commands.	- No power to the switch. - Wi-Fi connectivity issue (2.4GHz only). - Incorrect app pairing.	- Check circuit breaker. - Ensure your router is broadcasting a 2.4GHz signal and the switch is within range. Consider splitting 5GHz/2.4GHz bands if experiencing issues. - Re-pair the device with the app.
Lights flicker or do not turn off completely (no-neutral wiring).	- Capacitor not installed or incorrectly installed. - Incompatible light bulbs (e.g., very low wattage LEDs).	- Ensure the capacitor is correctly installed across the light bulb terminals. - Try different light bulbs or consult an electrician.
Switch gets warm or burns out.	- Overload (exceeding maximum wattage). - Incorrect wiring.	- Verify total wattage of connected lights does not exceed switch specifications. - Immediately turn off power and re-check all wiring connections. Consult a qualified electrician.
Difficulty with initial installation.	- Unfamiliarity with electrical wiring. - Misidentification of wires.	- Refer to the detailed wiring diagrams and video. - Consider hiring a qualified electrician for assistance.

7. SPECIFICATIONS

Feature	Detail
Brand	MOES
Model	WS-US-L (1-Gang)
Operation Mode	Automatic
Contact Type	Normally Open
Connector Type	Screw Terminals
Terminal	Screw
Circuit Type	2-way
Mounting Type	Wall Mount
Contact Material	Copper
Number of Positions	1

Feature	Detail
Control Method	App, Remote, Touch, Voice
Wireless Protocol	Wi-Fi 2.4GHz
Voltage	90-240V AC, 50/60Hz
Max. Current (per gang)	8A
Total Max. Current	8A

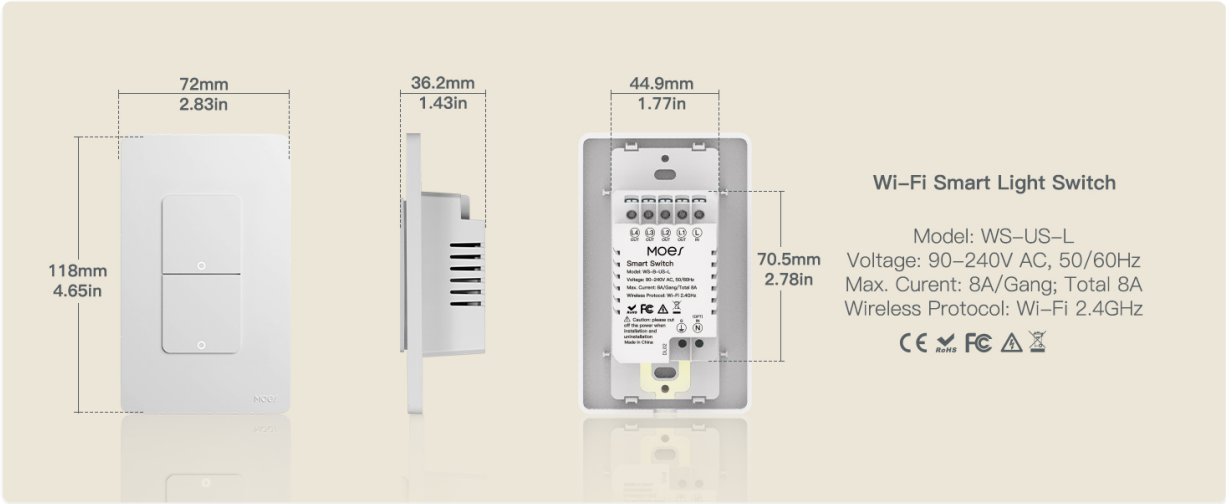*Image 7.1: Detailed dimensions and technical specifications of the MOES Smart Light Switch.*

8. WARRANTY AND SUPPORT

MOES products are designed for reliability and performance. For warranty information, technical support, or further assistance, please visit the official MOES website or contact their customer service directly.
You can find more information and support resources at the MOES Store on Amazon.

Related Documents - WS-US-L

	MOES Smart Switch Wi-Fi Single Pole / 3 Way Instruction Manual Comprehensive instruction manual for the MOES Smart Switch, covering installation, setup, Wi-Fi linking, and integration with Alexa and Google Assistant for single pole and 3-way configurations.
	Moes WiFi+RF Fan Light Switch User Manual - Smart Home Control Comprehensive user manual for the Moes WiFi+RF Fan Light Switch. Learn how to install, connect to WiFi and RF, and integrate with voice assistants like Alexa and Google Assistant for smart home automation.

	[WiFi+RF Dimmer Switch User Manual - Smart Home Control](#) User manual for the WiFi+RF Dimmer Switch, detailing installation, setup with Smart Life/Tuya app, and integration with Amazon Alexa and Google Assistant for smart home automation.
	[MOES UFO-R6 WiFi Smart Remote IR-Steuerung: Anleitung und Einrichtung](#) Umfassende Anleitung zur Einrichtung, Bedienung und Fehlerbehebung der MOES UFO-R6 WiFi Smart Remote IR-Steuerung. Erfahren Sie, wie Sie Ihre Geräte mit Alexa und Google Assistant steuern.
	[Manual de Instrucciones: Termostato Inteligente WIFI Válvula de Radiador MOES](#) Guía completa de instrucciones para el termostato inteligente WIFI Válvula de radiador MOES, cubriendo instalación, configuración, modos de operación, funciones avanzadas, control por voz, solución de problemas y servicio postventa.
	[MOES Smart Light Switch User Manual and Installation Guide](#) User manual for MOES Smart Light Switch (WS-EU-RF/WS-US-RF). Covers product features, safety, installation, Wi-Fi/RF pairing, multi-control association, and Alexa integration. Includes technical specifications and company contact details.