SONOFF MINI-D WiFi Smart Switch User Manual

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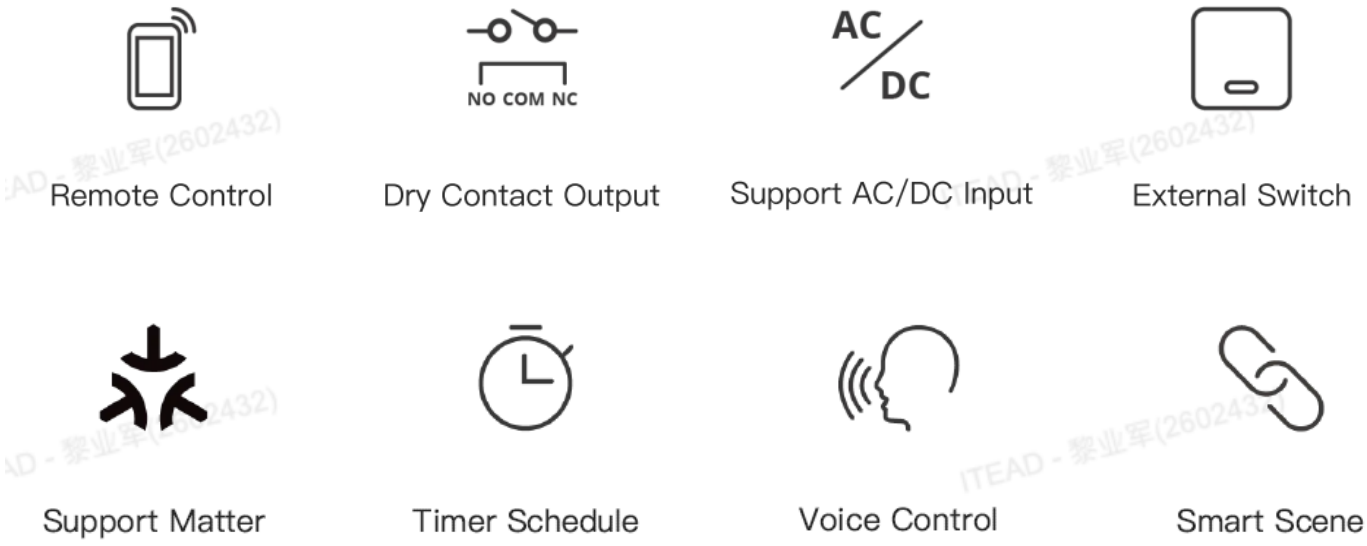
SONOFF MINI-D WiFi Smart Switch

Dry contact wiring
To ensure compatibility with the garage door motor, please short-circuit the terminals of the motor that were originally used to connect to the wall switch (the short-circuiting process is safe, so don't worry). If the garage door motor operates after short-circuiting, it is compatible; if the motor does not operate, it is not compatible.

***Make sure all wires are connected correctly.**

Introduction

MINI-D is a Wi-Fi dry contact smart switch that supports AC/DC power supply. It can be used to control motors, garage doors, and other dry contact input devices, offering remote control, voice control, and other functions through APP. It also supports the Matter protocol, allowing seamless integration with smart devices from other brands to build your home automation system.



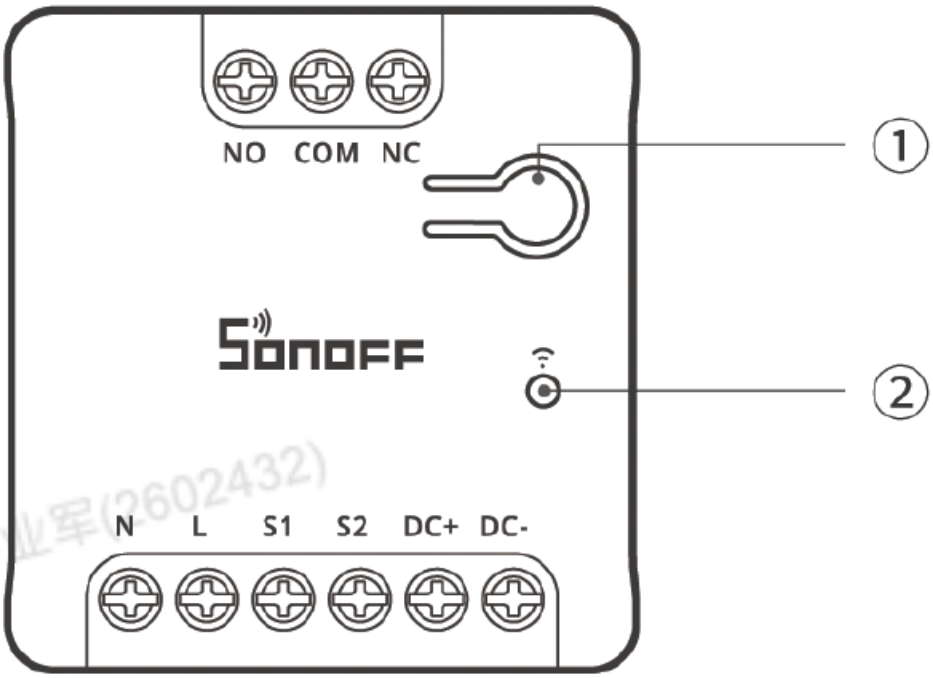
1. Button
    - Single press: Turn on/off the smart device.
    - Press and hold for 5 seconds: Device enters the pairing mode. (Pairing time 10 minutes)
    - Click three times in succession: Switch the external switch type.
2. LED indicator (Blue)

    eWeLink Mode
    - Keeps on: Device is online.

- Flashes once: Offline
- Flashes twice: LAN
- Flashes two short and one long: Device is in pairing mode.
- Flashes three times: Switch type is successfully switched.

Matter Mode

- Keeps on: Device is online.
- Flashes once: Offline
- Flashes two short and one long: Device is in pairing mode.
- Flashes three times: The switch type is successfully switched.



Matter-compatible Ecosystem

Works with Apple Home

works with Google Home

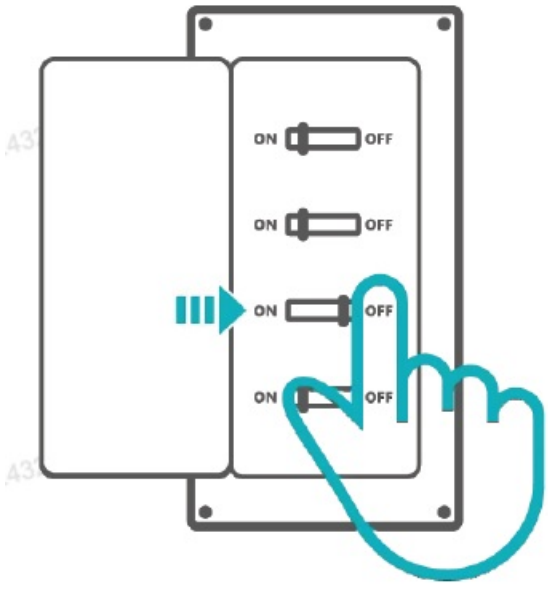
works with alexa

Specification

Model	MINI-D
MCU	ESP32-D0WDR2
Rating	100-240V~ 50/60Hz 0.1A Max OR 12-48V 1A Max μ
Load	24V ⎓ 2A Max Resistive load OR 12/24V ⎓ 8W
Wireless Connectivity	Wi-Fi: IEEE 802.11 b/g/n 2.4GHz
Net Weight	34.5g
Dimension	41x43x21.5mm
Color	White
Casing Material	PC
Applicable Place	Indoor
Working Temperature	10T40 (-10℃~40℃)
Working Humidity	5%~95% RH, non-condensing
Working height	Less than 2000m
Certification	CE/FCC/RoHS
Executive standard	EN 60669-2-1

Installation

Power off



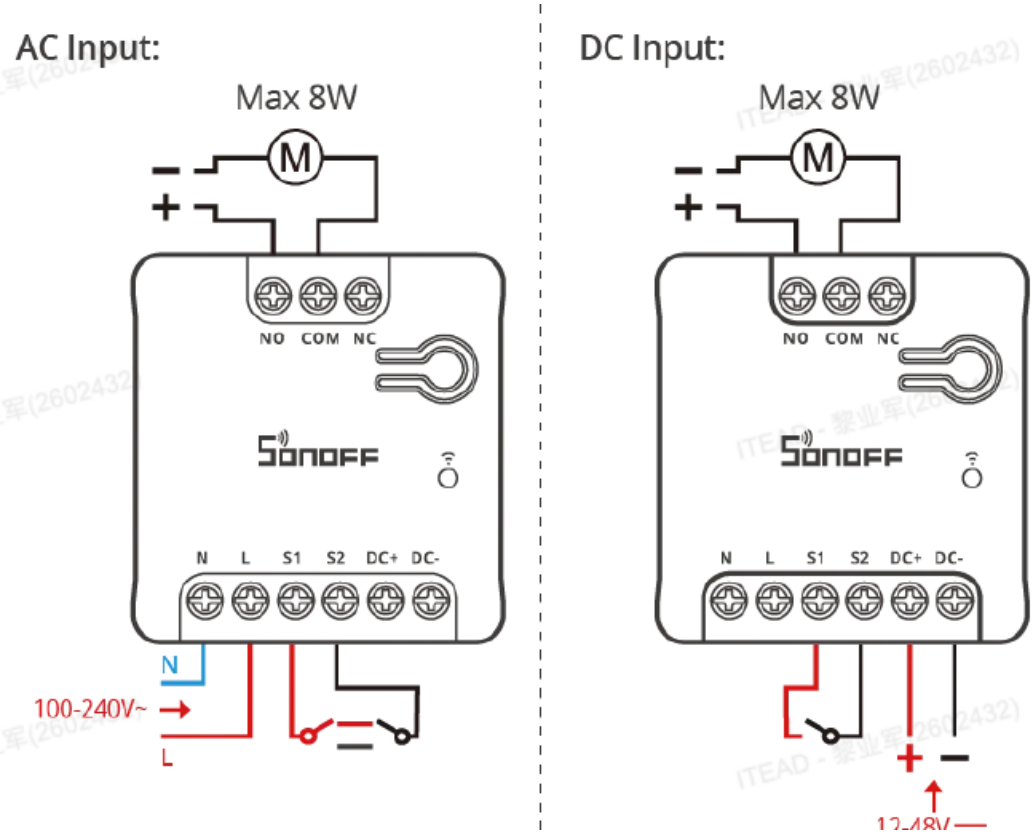
WARNING
Please install and maintain the device by a professional electrician. To avoid electric shock hazards, do not operate any connection or contact the terminal connector while the device is powered on!

Wiring instruction

WARNING

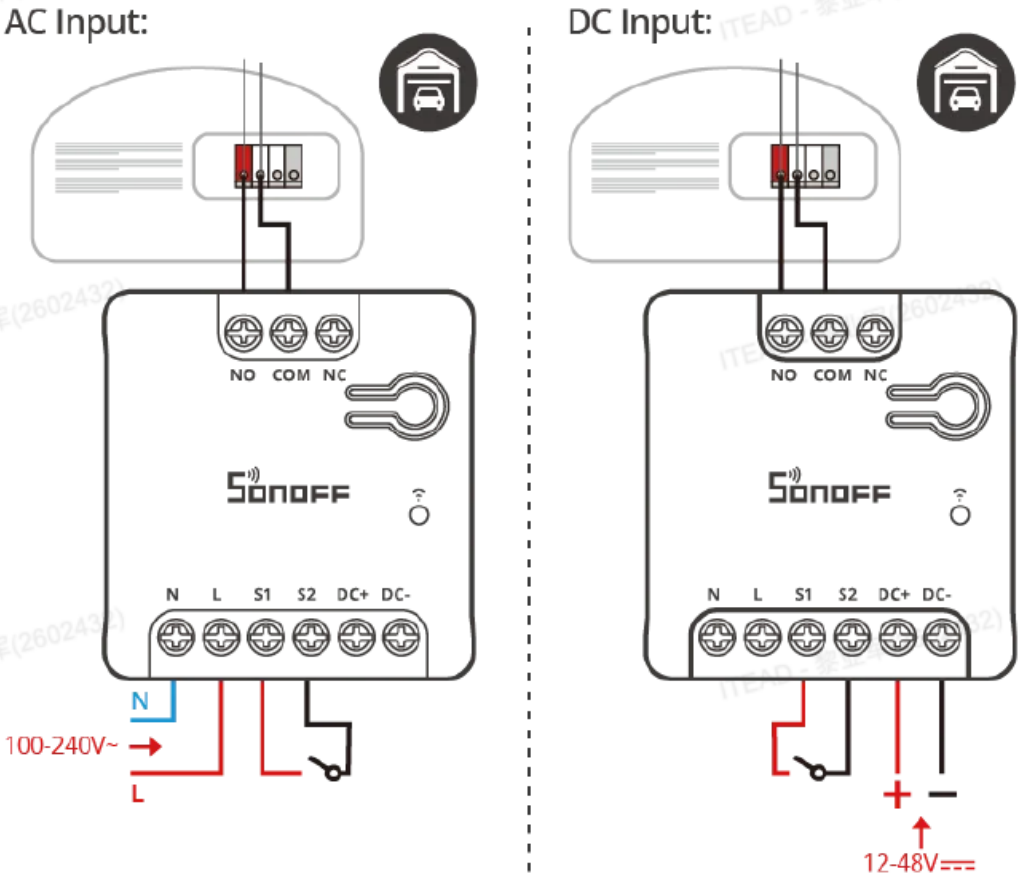
AC and DC are not supported as power input at the same time! *To ensure the safety of your electrical installation, it's essential either a Miniature Circuit Breaker (MCB) or a Residual Current operated Cicuit-breaker with Integral Overcurrent protection(RCBO) with an electrical rating of 10A that meets national safety standards has been installed before the MINI-D. An overcurrent protection device with a rated current of 3A needs to be used in the control circuit of the MINI-D.

DC low power load wiring



Dry contact wiring

1. Applicable to devices that can be controlled via dry contact.
2. To ensure compatibility with the garage door motor, please short-circuit the terminals of the motor that were originally used to connect to the wall switch (the short-circuiting process is safe, so don't worry). If the garage door motor operates after short-circuiting, it is compatible; if the motor does not operate, it is not compatible.

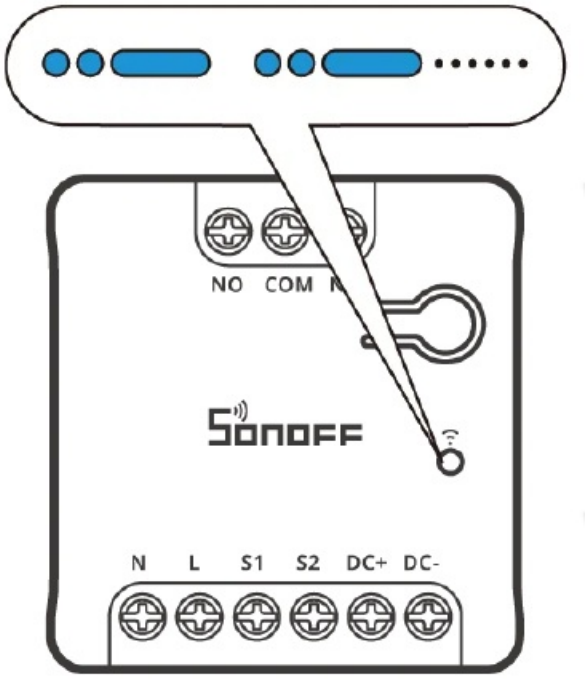


Make sure all wires are connected correctly.

Instructions of wiring symbols

Terminals		Wires	
NO	Normally Open (Output Terminal)		
COM	Common (Output Terminal)		
NC	Normally Closed (Output Terminal)		
N	Neutral (Input Terminal)	N	Neutral Wire
L	Live (Input Terminal)	L	Live (100~240V) Wire
S1	External Switch (Input Terminal)		
S2	External Switch (Input Terminal)		
DC+	12V-48V DC Positive (Input Terminal)	+	12V-48V DC Positive Wire
DC-	12V-48V DC Negative (Input Terminal)	–	12V-48V DC Negative Wire

Power on

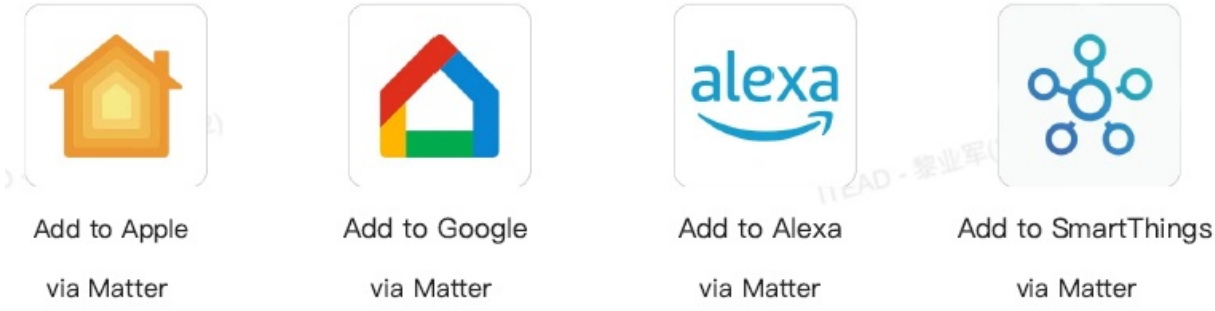


After powering on, the device will enter the Pairing Mode during the first use. The LED indicator changes in a cycle of two short and one long flash and release. *The device will exit the Pairing Mode if not paired within 10mins. If you want to enter this mode, please long press button for about 5s until the LED indicator changes in a cycle of two short and one long flash and release.

Check the Device Status
External Switch Type: The device's factory default is the rocker switch. To switch to the momentary switch, you need to short-press the device button three times. If the blue light flashes three times, it means the switch is successful.

Add Device

Method 1: Matter pairing
Open a Matter-compatible App to scan the Matter QR code on the Quick Guide or the device itself to add the device.

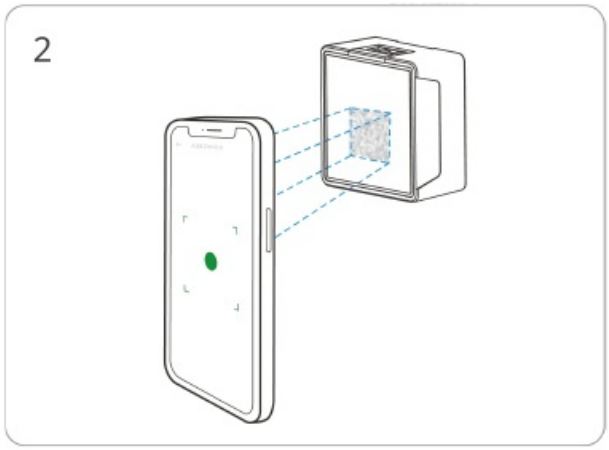


Method 2: eWeLink app pairing

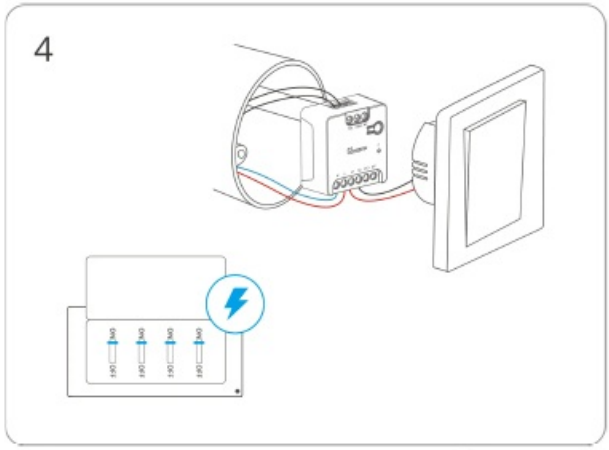
Download the eWeLink app

1. Please download the "eWeLink" App from Google Play Store or Apple App Store.

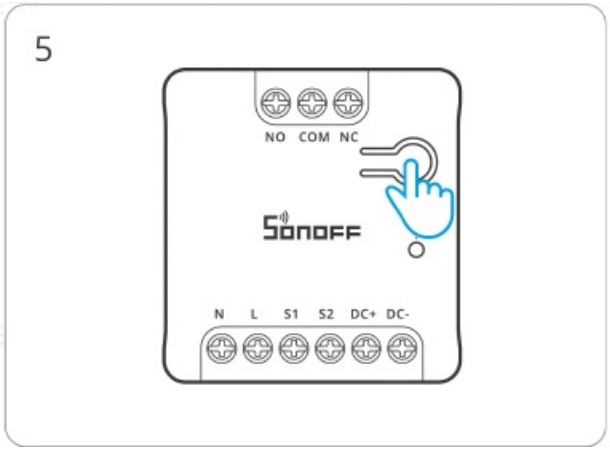
2. Scan QR code to add the device.

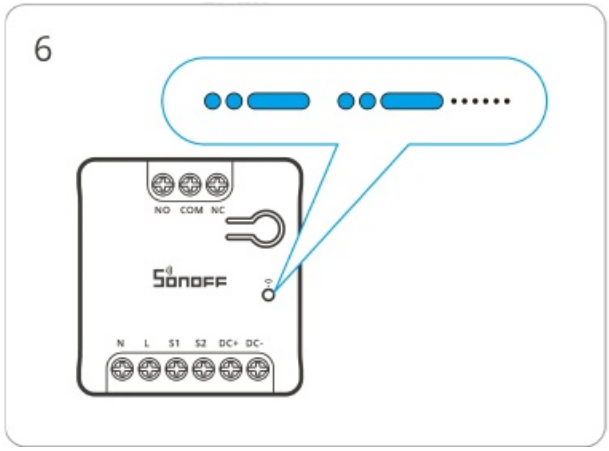


1. Enter “Scan”.
2. Scan the QR code on the device.



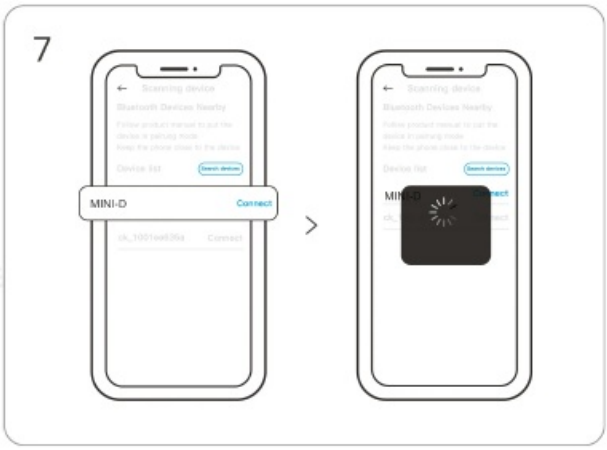
3. Select “Add Device”.
4. Power on the device.
5.

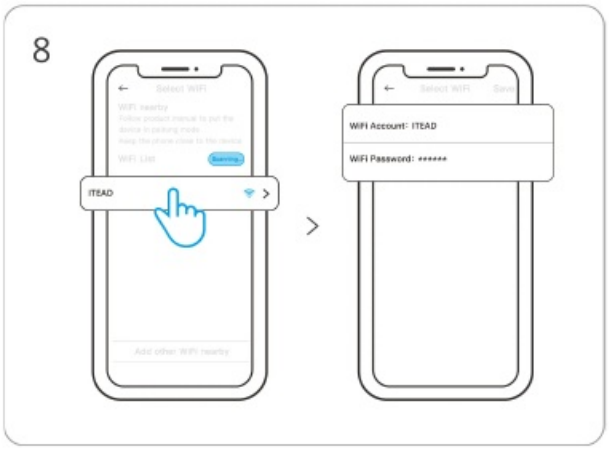




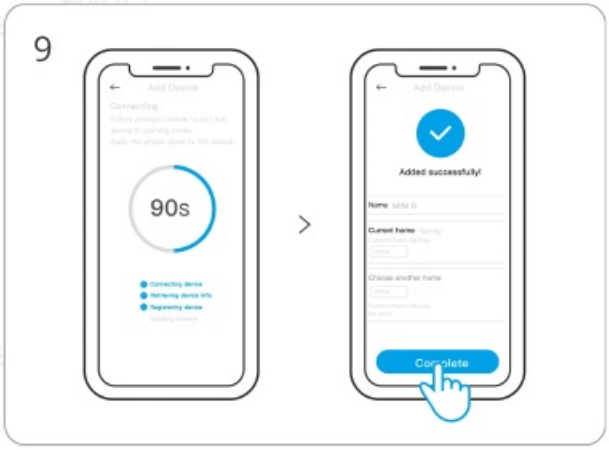
Long press the button for 5 seconds

6. Check Wi-Fi LED indicator flashing status (Two short and one long).



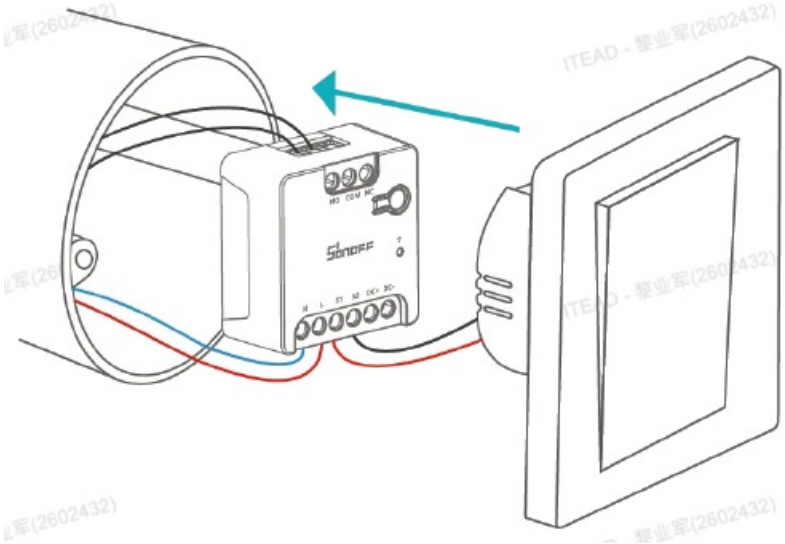


7. Search for the device and start connecting.
8. Select the “Wi-Fi” network and enter the password.



9. Device “Added completely”.

Install the device in the mounting box.



Factory Reset

Reset the device to factory settings by “Delete device” in the eWeLink App.

This product is only suitable for safe use at altitudes below 2000m.

For CE Frequency

EU Operating Frequency Range

- Wi-Fi:
- 802.11 b/g/n20 2412–2472 MHz
- 802.11 n40: 2422-2462 MHz
- BLE: 2402–2480 MHz
- EU Output Power
- Wi-Fi 2.4G≤20dBm
- BLE≤10dBm

EU Declaration of Conformity

Hereby, Shenzhen Sonoff Technologies Co., Ltd. declares that the radio equipment type MINI-D, MINI-D-MS is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:**https://sonoff.tech/compliance/**

WEEE Disposal and Recycling Information

WEEE Disposal and Recycling Information All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

Scatola	Manuale
PAP 21	PAP 22
Carta	Carta
RACCOLTA DIFFERENZIATA	

Verifica le disposizioni del tuo Comune. Separa le componenti e conferiscile in modo corretto.

FCC Compliance Statement

1. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
    1. This device may not cause harmful interference, and
    2. This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC ID: 2APN5MINI-D

Warning
Under normal use of condition, this equipment should be kept a separation distance of at least 20 cm between the antenna and the body of the user. Dans des conditions normales d'utilisation, cet équipement doit être maintenu à une distance d'au moins 20 cm entre l'antenne et le corps de l'utilisateur.

- Pollution degree: II
- Rated impulse voltage: 4KV
- Automatic action: 20000 Cycles
- Diameter of wiring(recommend): 18AWG to 14AWG 0.75mm² to 1.5 mm²
- Casing material: PC
- Control Type: 1.B
- Operating temperature: 10T40
- Operating altitude: 2000m

Manufacturer: Shenzhen Sonoff Technologies Co., Ltd.

- Address: 3F & 6F, Bldg A, No. 663, Bulong Rd, Shenzhen, Guangdong, China
- ZIP code: 518000 Service email: **support@itead.cc**
- Website: sonoff.tech Made in China

FAQ:

- **Q: What is the purpose of the MINI-D Wi-Fi smart switch?**
  A: The MINI-D is a Wi-Fi dry contact smart switch that supports AC/DC power supply. It can be used to control motors, garage doors, and other dry contact input devices, offering remote control, voice control, and other functions through an APP.
- **Q: How do I know if the device is in pairing mode?**
  A: In eWeLink mode, the LED indicator will flash twice indicating it's in pairing mode. In Matter mode, the LED indicator flashes two short and one long pattern to signal pairing mode.
- **Q: What kind of wiring symbols are used for installation?**
  A: The wiring symbols used include Terminals NO, COM, NC, N, L, S1, S2, DC+ for different connections such as Normally Open, Common, Normally Closed, Neutral, Live, External Switch, and DC Positive.

Documents / Resources

	SONOFF MINI-D WiFi Smart Switch [pdf] User Manual MINI-D, ESP32-D0WDR2, MINI-D WiFi Smart Switch, MINI-D, WiFi Smart Switch, Smart Switch , Switch

References

- User Manual