

Aqara Canon Wall Switch Z1 Pro Introduction

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Product Profile



The Aqara cannon wall switch Z1 Pro (single/double/triple/quadruple rocker version) adopts a neutral/non neutral universal design. Based on your home's electric construction situation, you can choose your own wiring method.

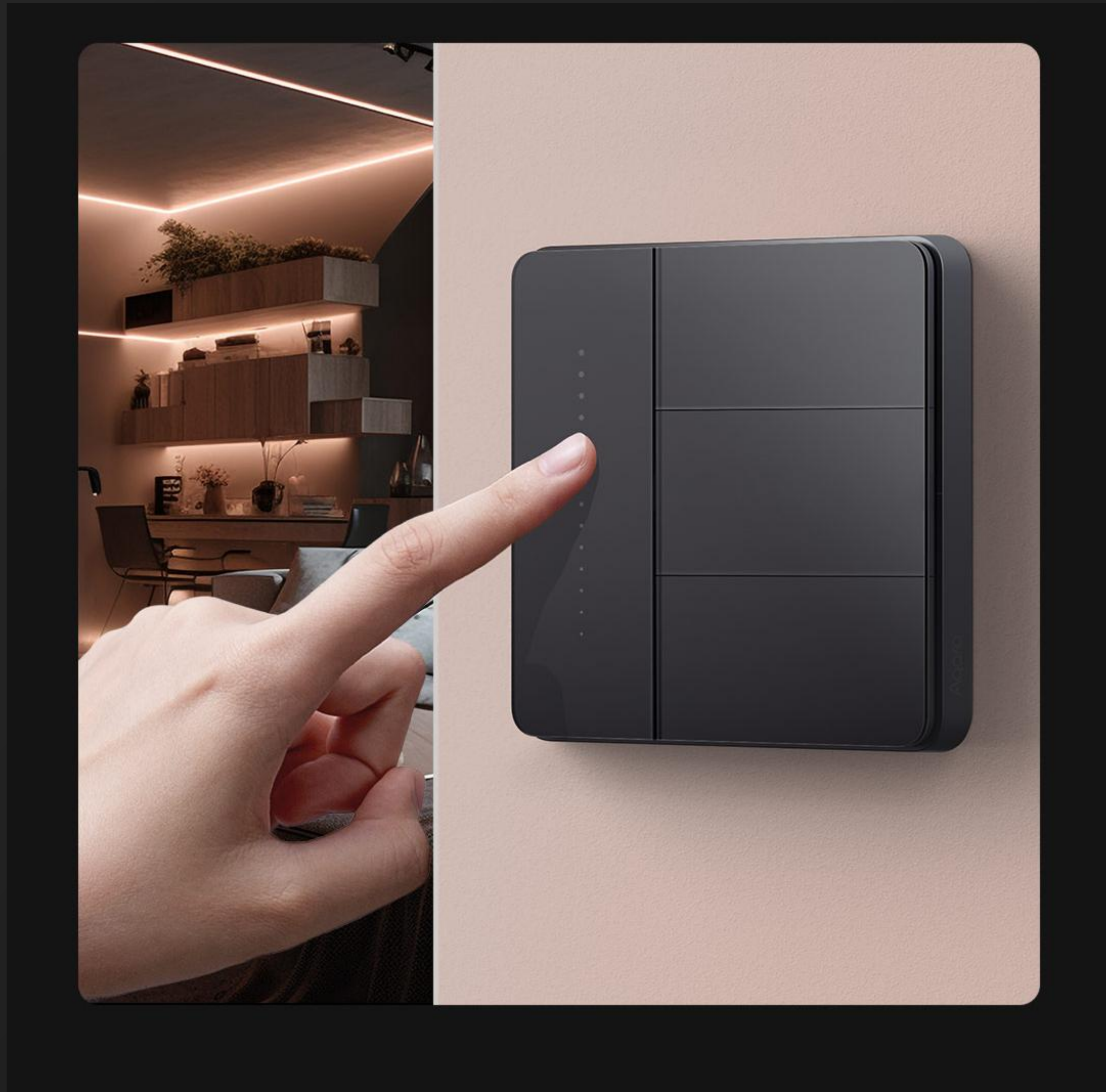
This product is based on the Zigbee wireless communication protocol and can control the power supply on and off of the device; Cooperating with the Aqara hub can achieve functions such as remote control of the app and device linkage; Connected to the HomeKit platform, the device can be quickly controlled through the Home App.

*This product needs to be used with Zigbee3.0 hub device. Some functions require specific model gateway support. For a detailed list, please refer to: www.aqara.com/support.



Product Profile

Aqara



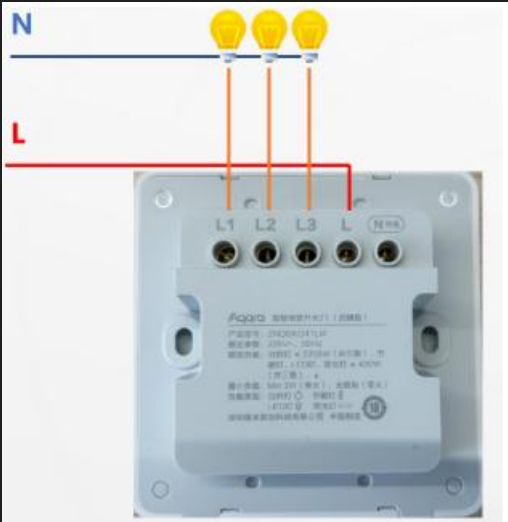
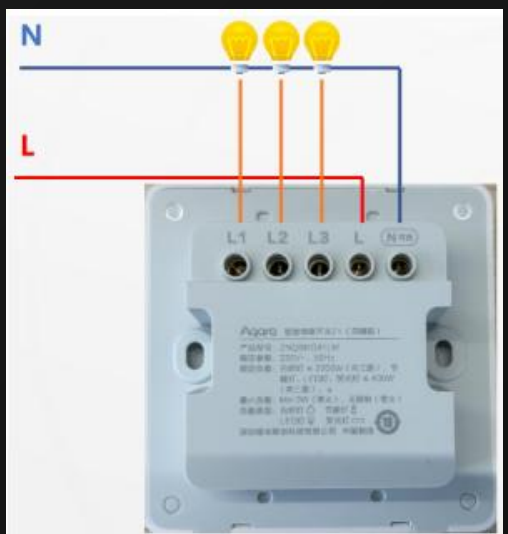
Specifications



Name	Aqara cannon wall switch Z1			
Version	Single Rocker	Double Rocker	Triple Rocker	Quadruple Rocker
Dimension	86*86*33.5mm			
Material	PC+Imitation AG glass			
Rocker type	Tact Switch			
Number of rockers	1	2	3	4
Number of light controls	1	2	3	3
Relay specifications	HF182			
Communication module	MG24 (Zigbee3.0)			
Rated parameter	220V~, 50Hz			
Rated load	Incandescent lamp ≤ 2200W (total number of circuits), energy-saving lamp, LED lamp, fluorescent lamp ≤ 400W (total number of circuits), μ			
Minimum load	Min 3W (Non neutral), unrestricted (Neutral)			
Operating temperature	-10℃ ~ 40℃			
Operating humidity	5 ~ 95% RH, noncondensing			

Specifications



Item	Non Neutral Mode	Neutral Mode
Wiring method	Do not connect a separate neutral wire N to the switch.	Connect a separate neutral wire N to the switch
Wiring diagram		
Power and electricity statistics	Manually input the device power, calculate the power and electricity consumption based on the input power.	Statistics of real-time power of connected electrical equipment, without the need for manual input of power.
Relay locking	√	√
Power outage memory	√	√
Quick Dual Control	√	√
Turn to wireless switch		
Wireless switch mode	Only supports four keys version Fast click mode: single click Multifunctional mode: single click, double-click, long press	Only supports four keys version Fast click mode: single click Multifunctional mode: single click, double-click, long press
Minimum load	3W	Unlimited
Mode switching	Anti flashing mode, fast mode	Not supported

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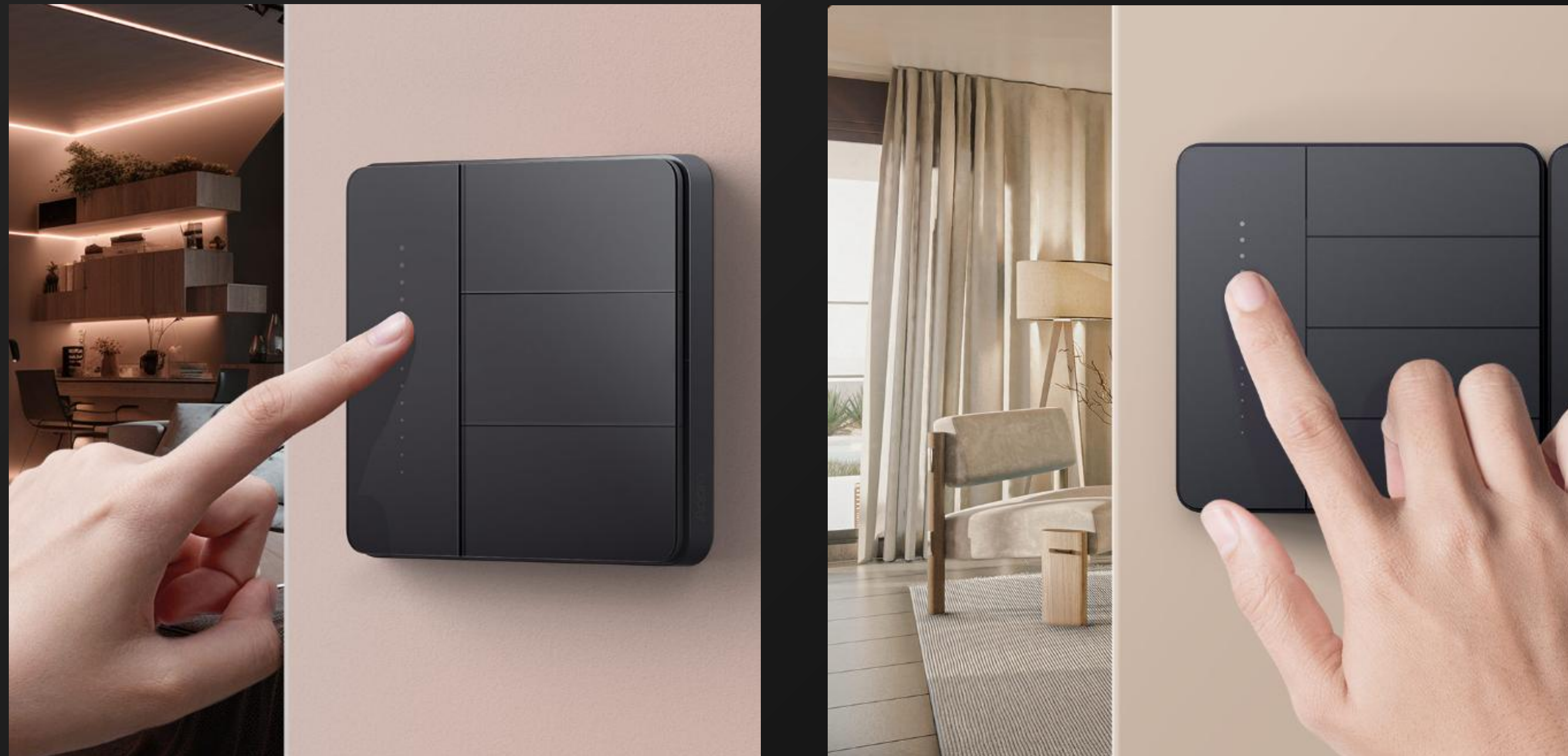
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Product Feature

Aqara

Sliding Button Control

By sliding the touch area on the left side of the switch for dimming, color temperature adjustment, curtain control, and other functions, it supports single click, double click, and long press control, which can also customize and control specific devices and scenes.



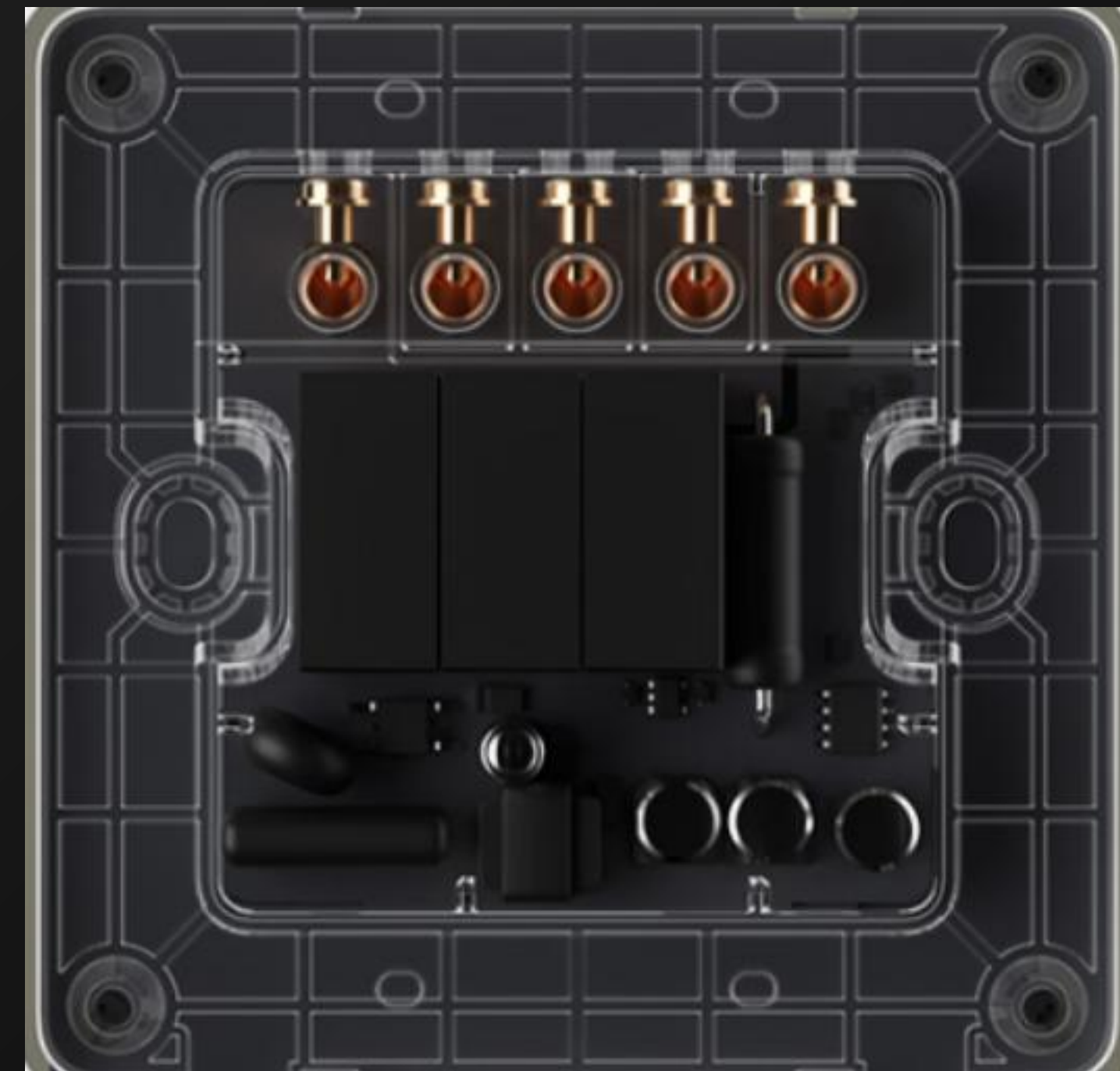
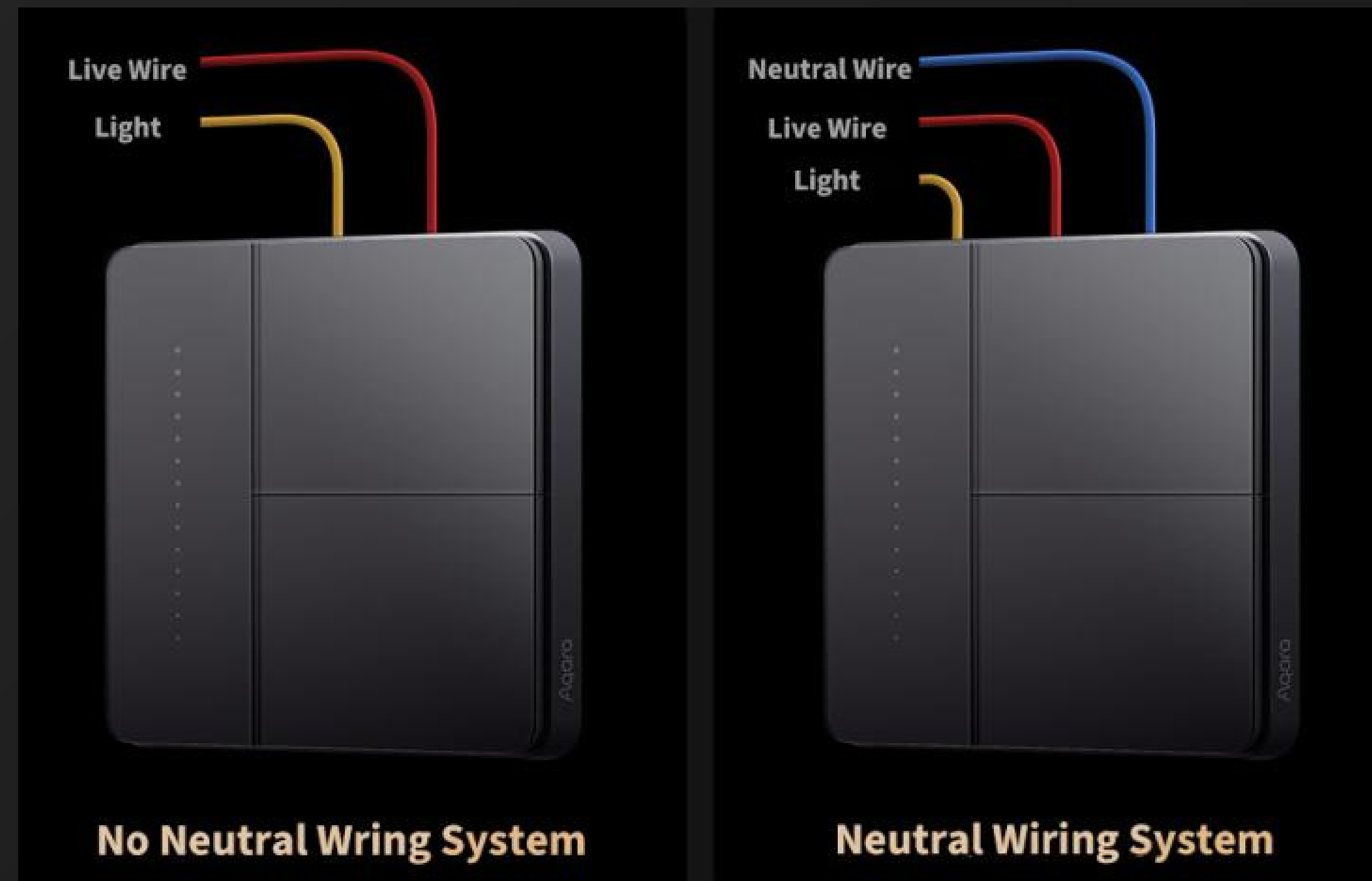
Product Feature

Aqara

Neutral/Non neutral shared design

AI self check judgment mode

This product adopts a Neutral/Non neutral shared design, therefore no need to worry about the home wiring environment. Just consider the key requirements and start with your eyes closed. According to the hardware no neutral and neutral scheme, through AI adaptive mode, we present different functional control interfaces for you.

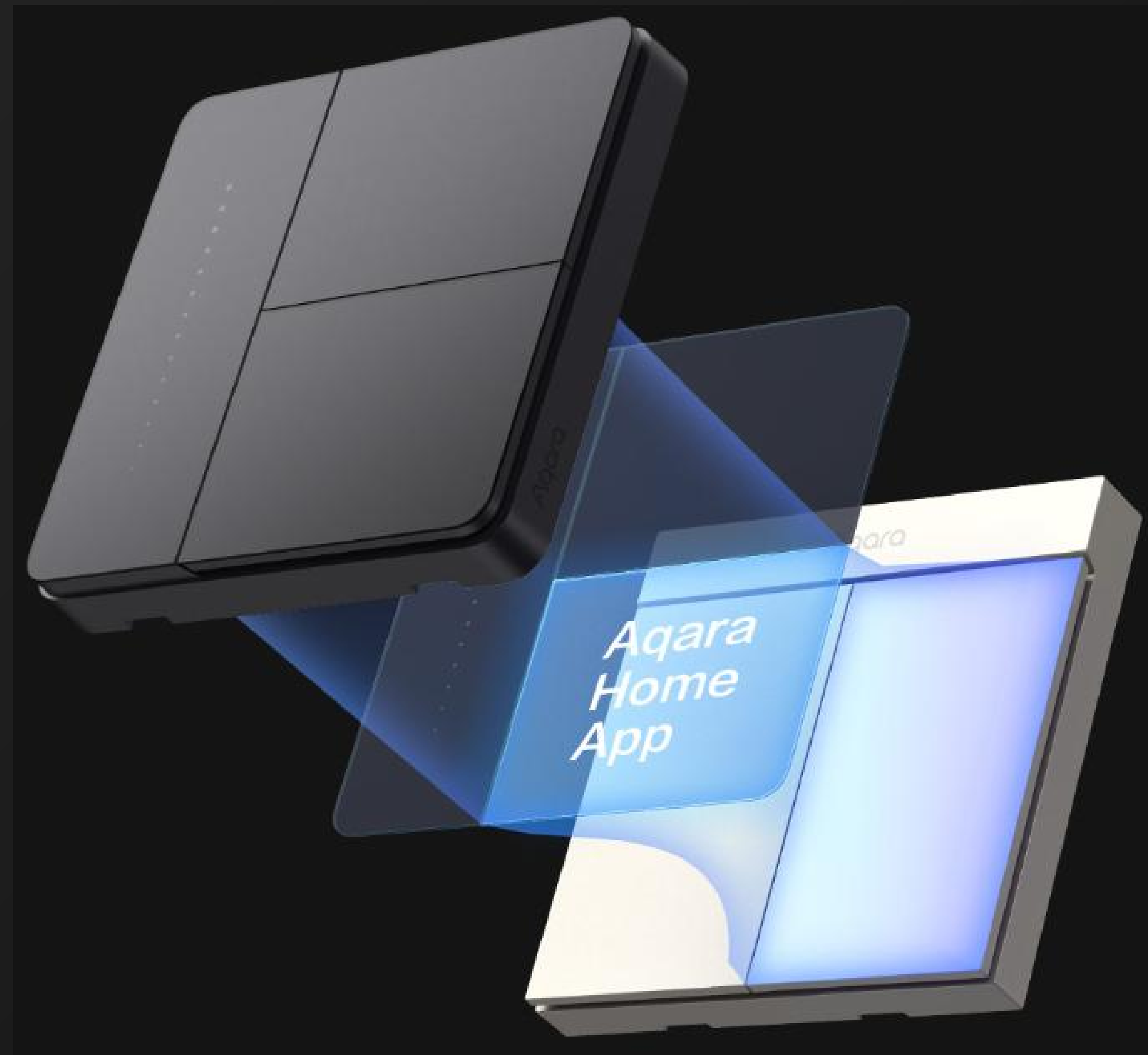


Product Feature



Quick synchronization dual control

Z1 Pro switch has an ultra convenient key position synchronization function. Through the Aqara Home APP, user can customize the specified key position to be fully bound to any Aqara smart switch's specified key position, achieving one key dual control and indicator light status synchronization.



Product Feature

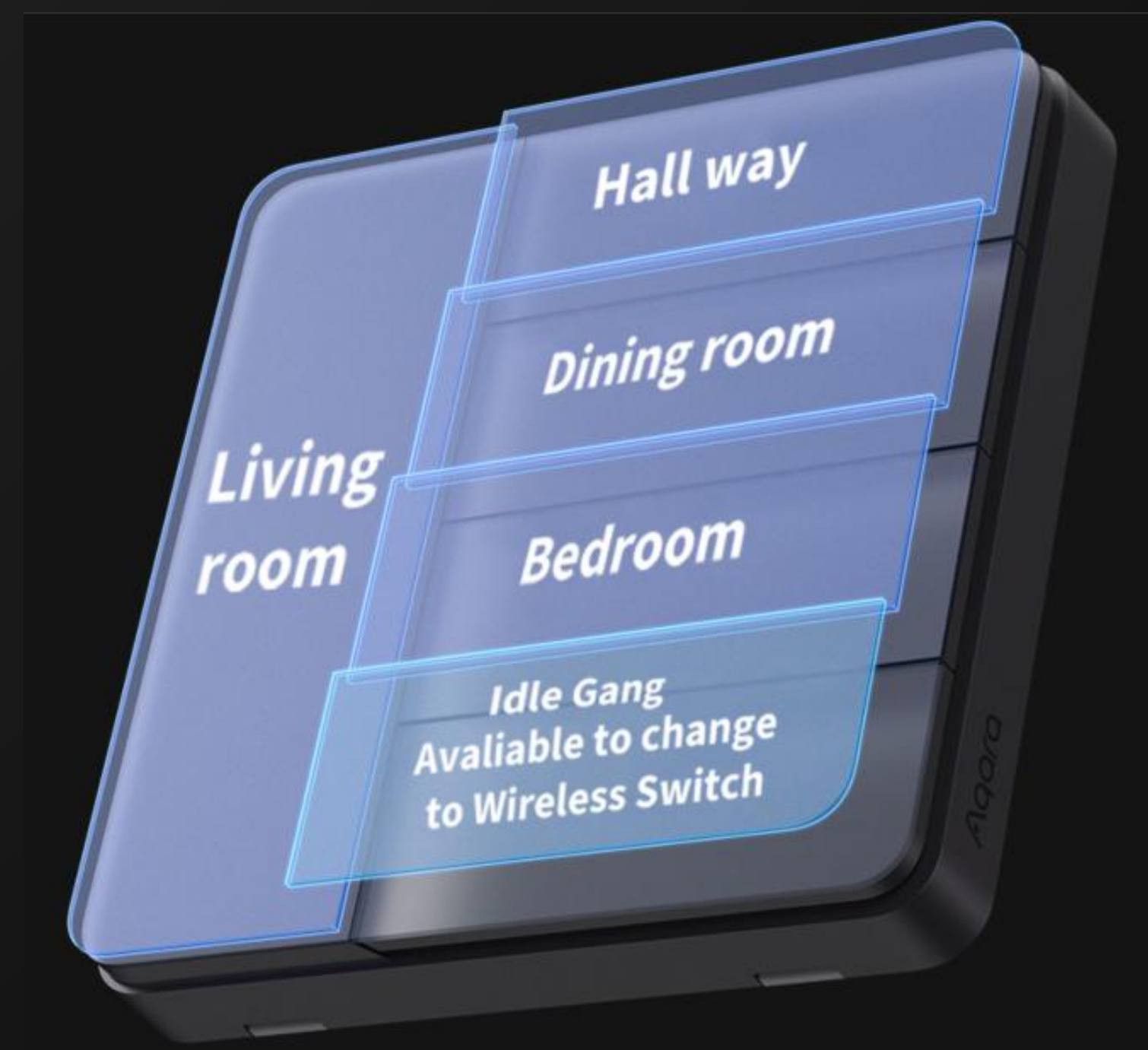


Remote wireless dual control

Z1 Pro can convert idle buttons into wireless switch mode to control other smart devices. With combination use of Z1 Pro switch, wireless switch and hub , it can be used to control wall switches anywhere through wireless switches, making it easy to double control or even multi control lights.

The bottom key position of Z1 Pro (four key version) is a wireless switch that supports single click, double click, long press, and can simultaneously close all key positions with one click.

* The four key version consists of 3 relay switches and 1 wireless switch (at the bottom).

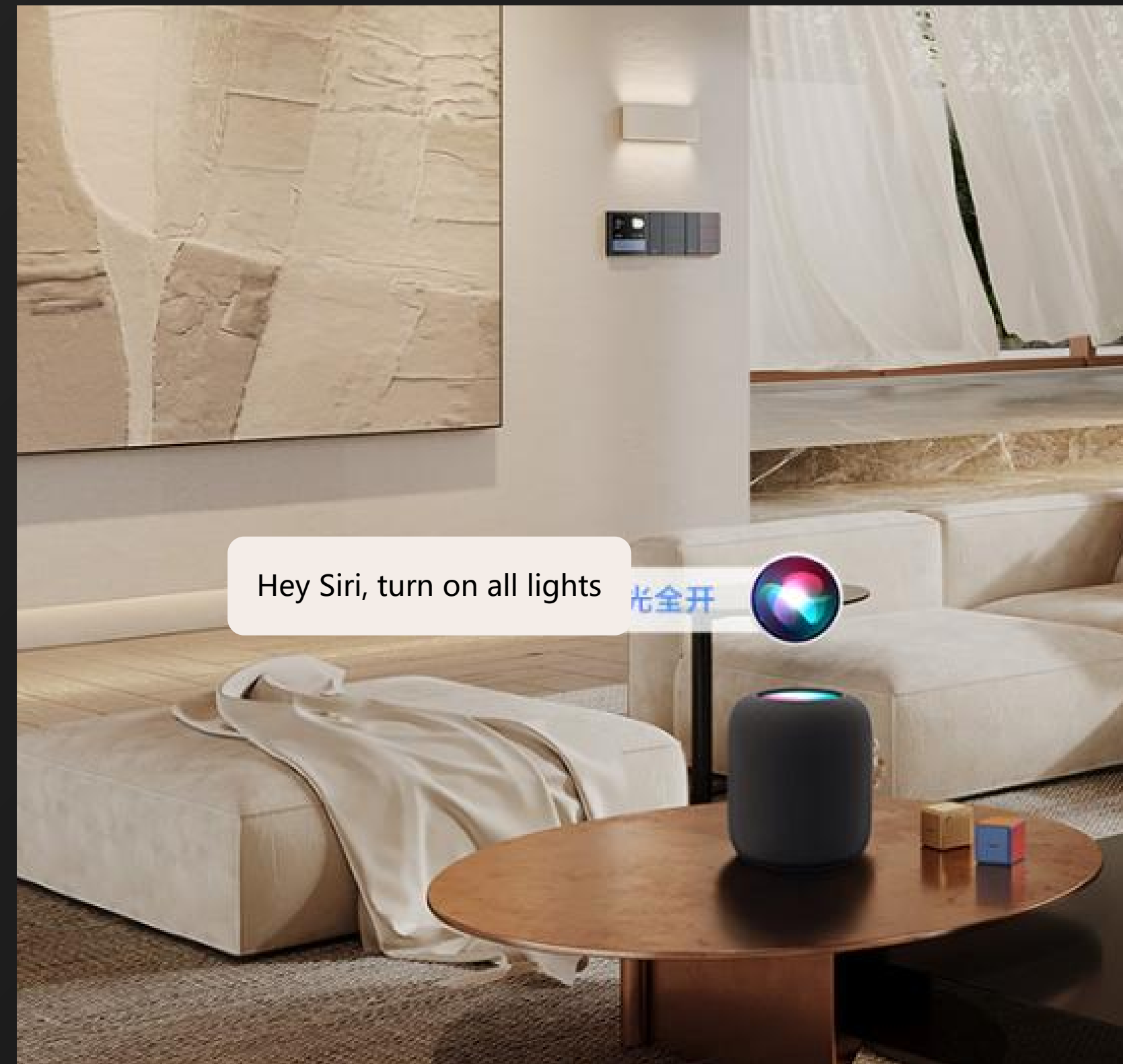


Product Feature

Aqara

Voice control

Supports Siri voice control, allowing you to turn on and off lights without moving around.

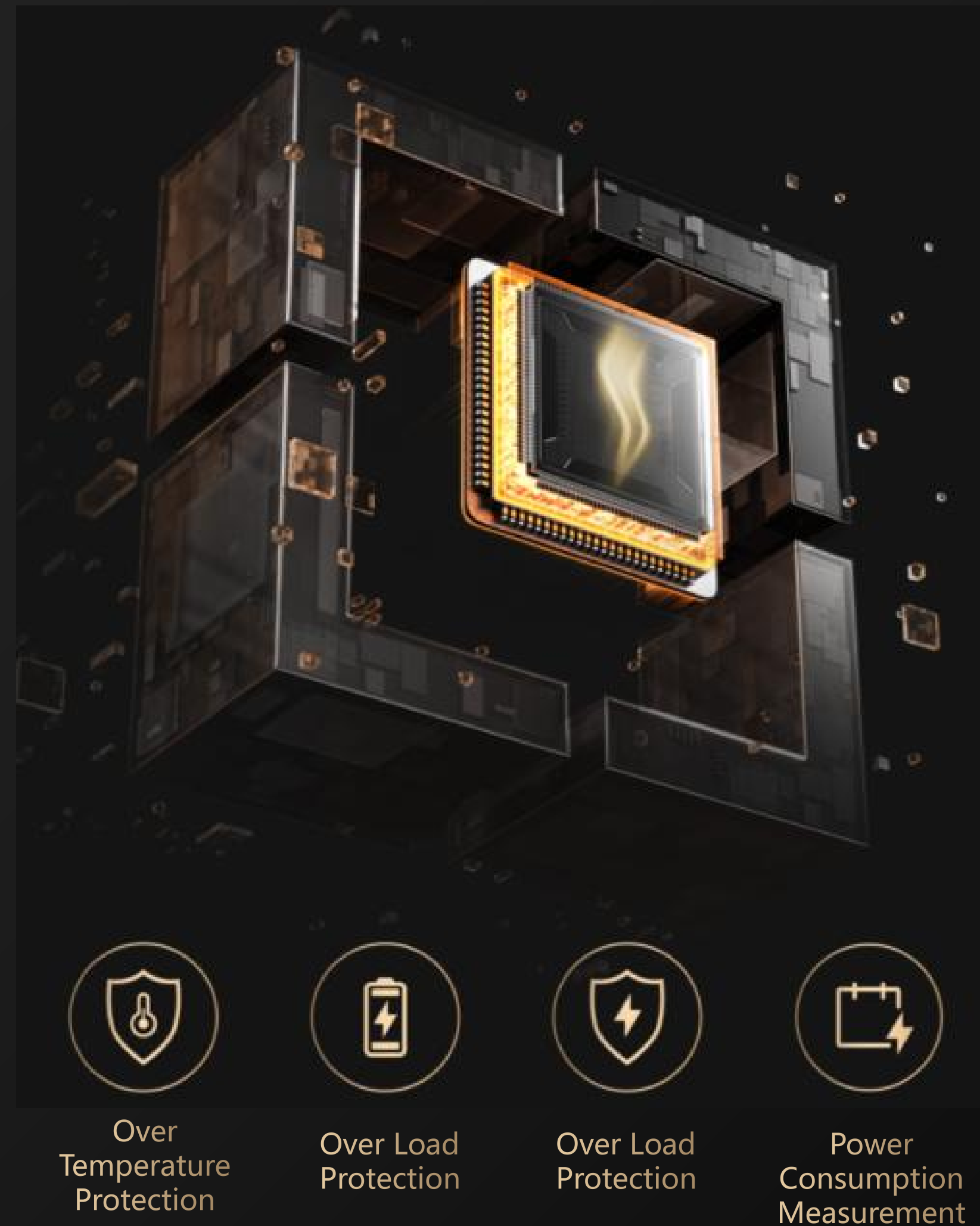


Product Feature



Over temperature, overload protection; Lightning protection and surge prevention

The Z1 Pro switch is equipped with a built-in fuse and temperature detection chip, which automatically powers off when overloaded or when the internal temperature reaches 85 ° C. The entire switch body is made of V0 level flame retardant material, ensuring the safety and reliability of the switch from details to protect the entire home electrical system.

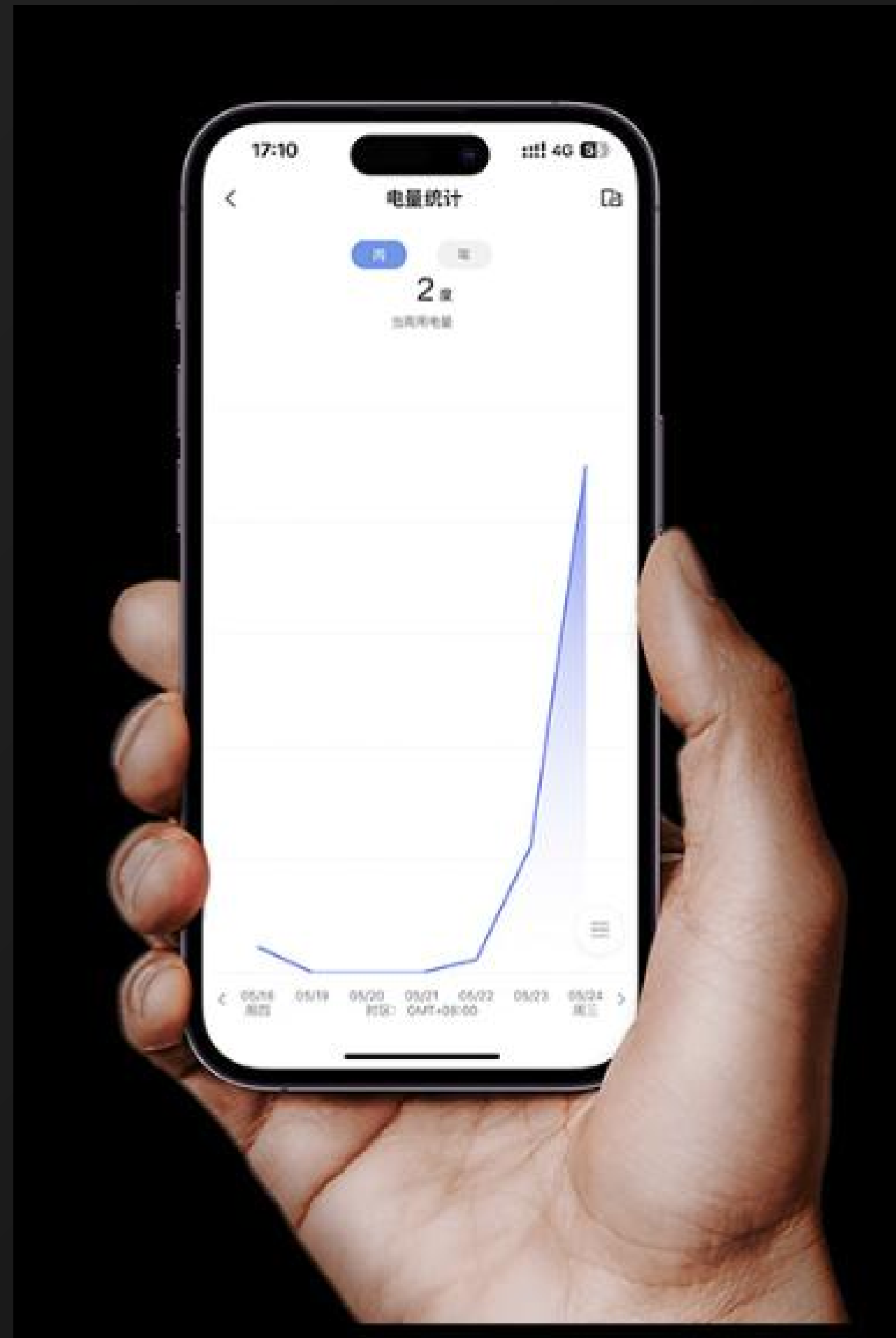


Product Feature



Power Monitoring and Statistics

How much power do your lights and other electrical appliances consume daily? Z1 Pro Wall Switch can monitor the power-consumption and generate a power curve diagram to make it easier for you to understand which devices are most power-efficient and which are not.



Product Feature

Powerful automation for better life



Your bathroom exhaust will be turned on automatically when it becomes humid and each time the toilet is used.

IF: The humidity reaches 80%
OR
IF: Toilet lid is open

THEN: Turn on the bathroom exhaust


Wall Switch H1 EU

+


Door and Window Sensor

+


Hub

+


Temperature and Humidity Sensor

Connect Aqara sensors with the Aqara Wall Switch H1 EU and forget about using your switches manually.

IF: Motion is detected
THEN: Turn on the bedroom lights


Wall Switch H1 EU

+


Hub

+


Motion Sensor

Product Feature

Powerful automation for better life



Turn on the light when open the smart door lock



Z1 Pro Wall Switch

Hub M2

Smart Door Lock



Turn on the light when open the smart door lock



Z1 Pro Wall Switch

Hub M2

Curtain Controller

Wireless Switch



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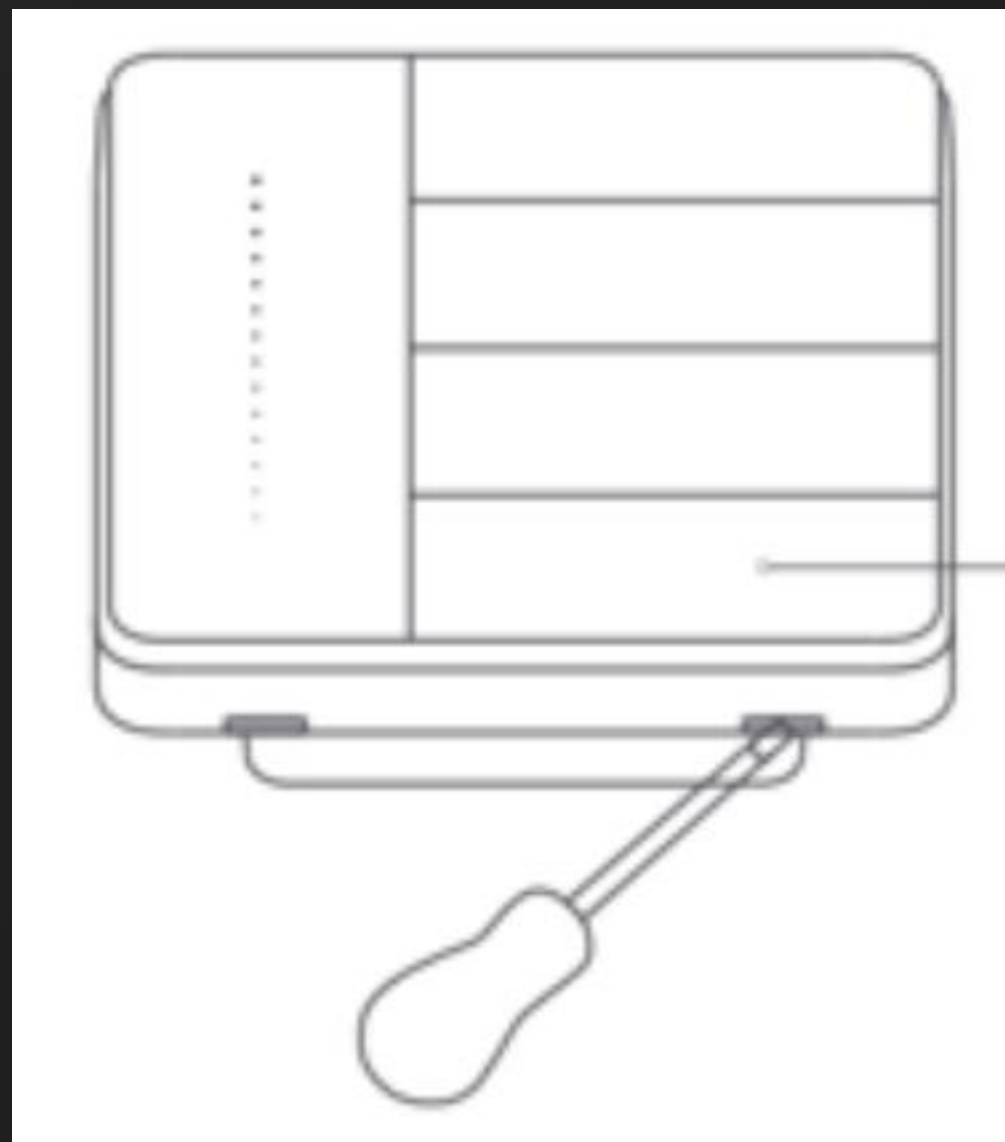
Installation

Aqara

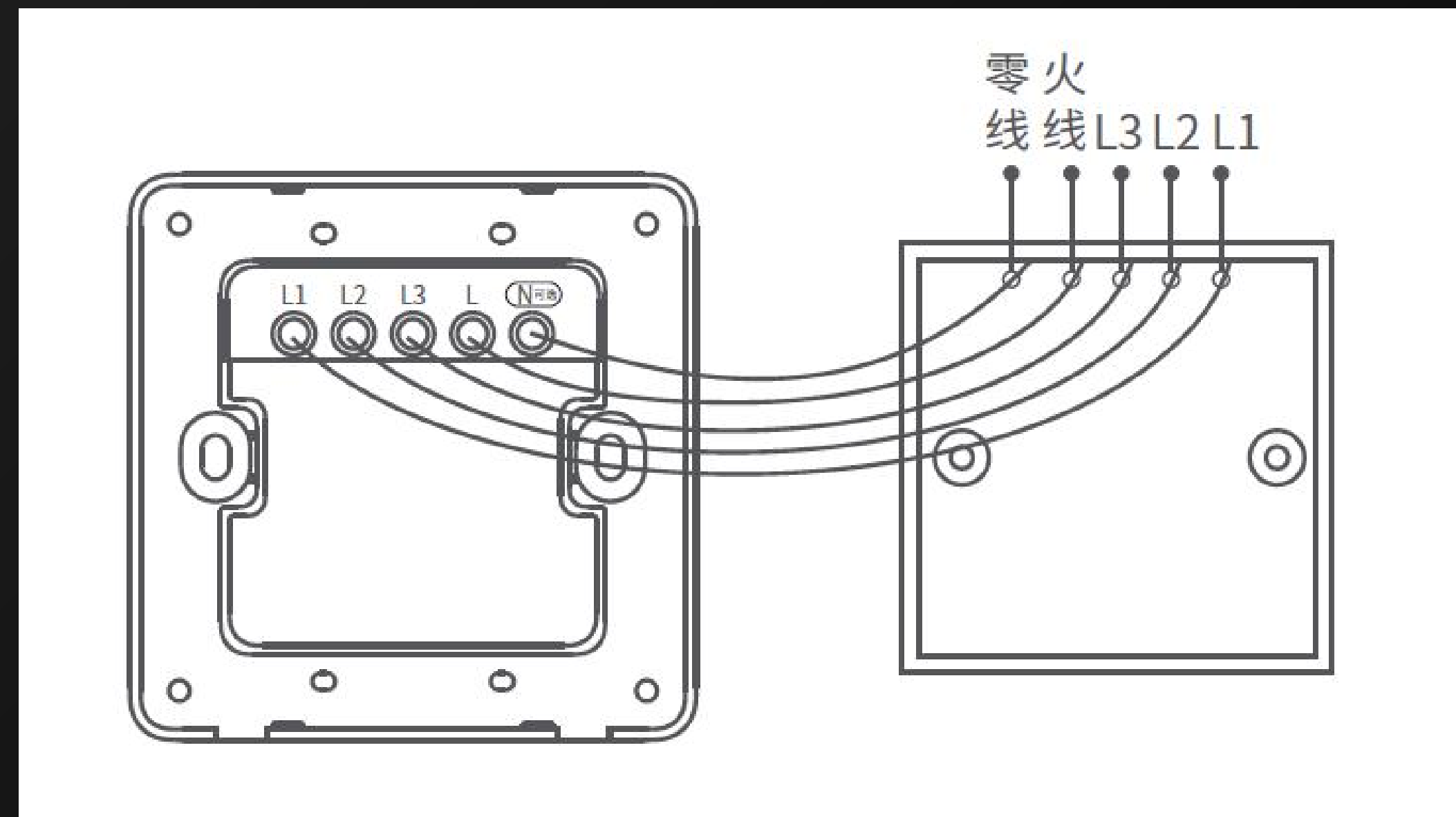


Please make sure that the power at circuit breaker or fuse box is turned off before wiring!

1. Open the switch panel with a flat-blade screwdriver.



2. Use a screwdriver to loosen the screw on the wiring post on the back of the switch, connect the live wire to the L hole, and connect the neutral wire to the N hole (choose whether to connect according to whether there is a neutral wire in the home electrical wiring). Connect the load (light) wire to the L1, L2, and L3 holes. After confirming that the wiring is correct, tighten the screw on the wiring post, and the total load cannot exceed 2200W;

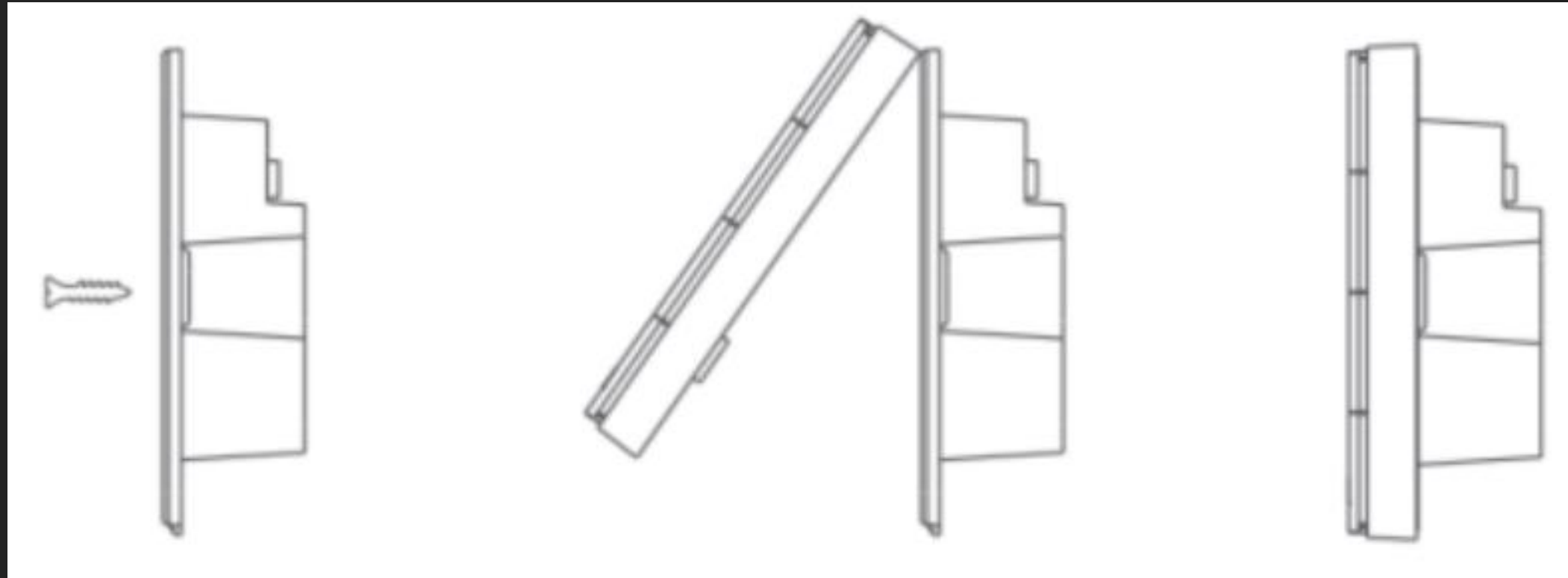


Installation



3. Mount the switch to the wall junction box with the attached screws and mount the switch plate.

*Note: Please be gentle while twist the screw, do not exceed the screw torque of $0.7\text{N} \cdot \text{m}$



4. Turn on main power at the circuit breaker and test the switch by pressing the button. If the light can be controlled normally, the switch is working properly!

Installation - Binding

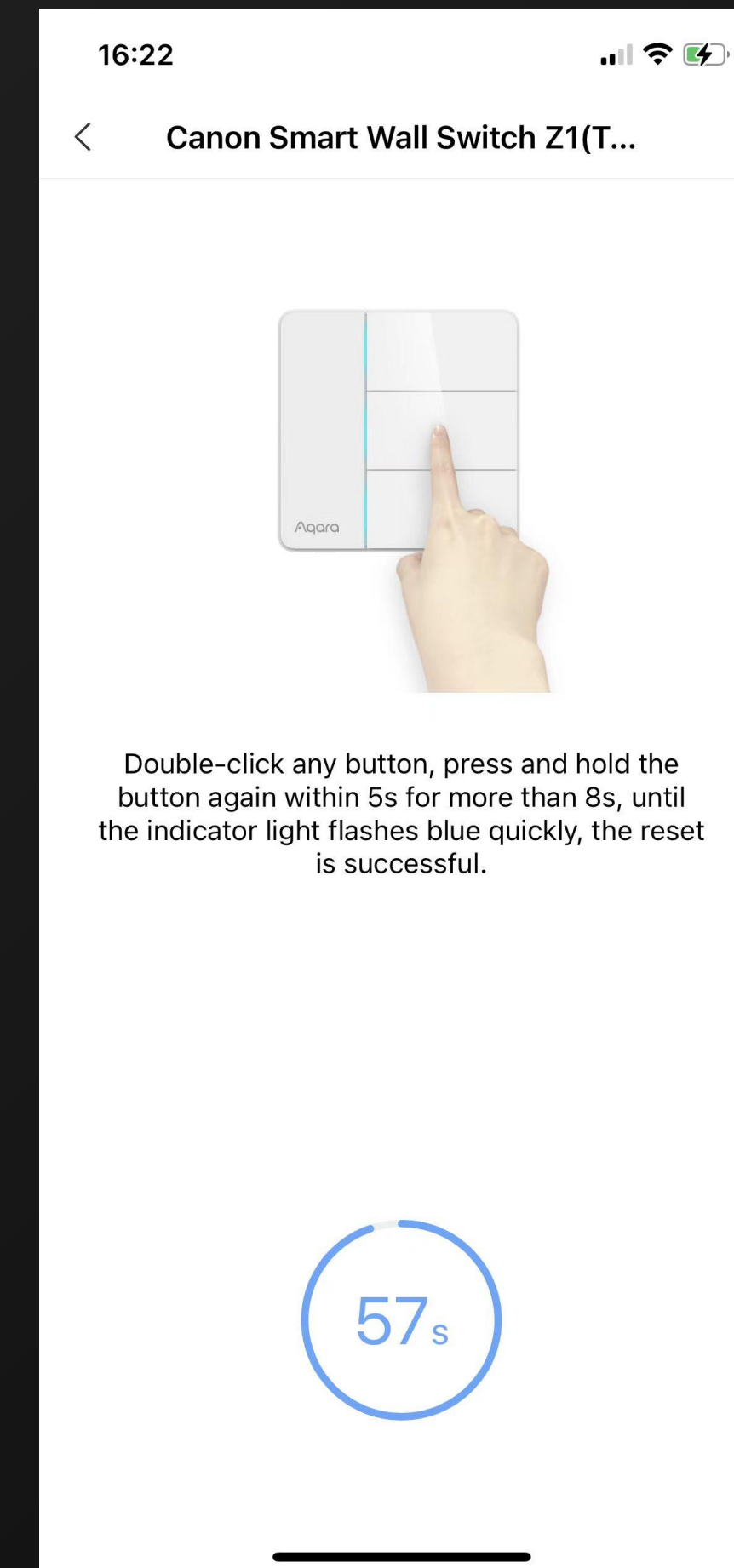


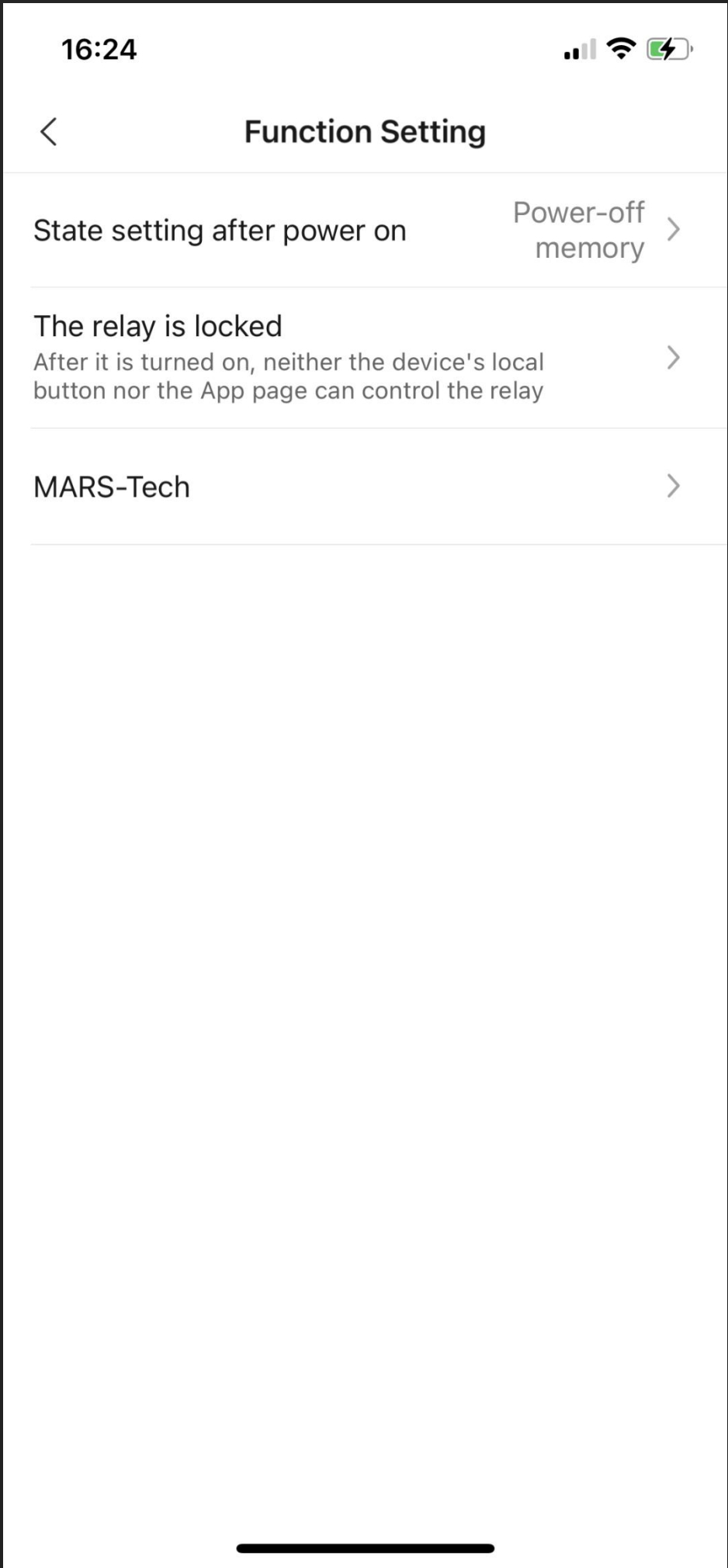
1. Quickly double-click any button (with a time interval of no more than 400ms)

2. Press and hold the button again within 5 seconds for more than 5 seconds

3. The blue indicator light flashes, indicating successful reset.

Note: The fourth button of the four button version cannot be reset.





According to different wiring methods and hardware self detection wiring, the APP presents different modes

Neutral mode:

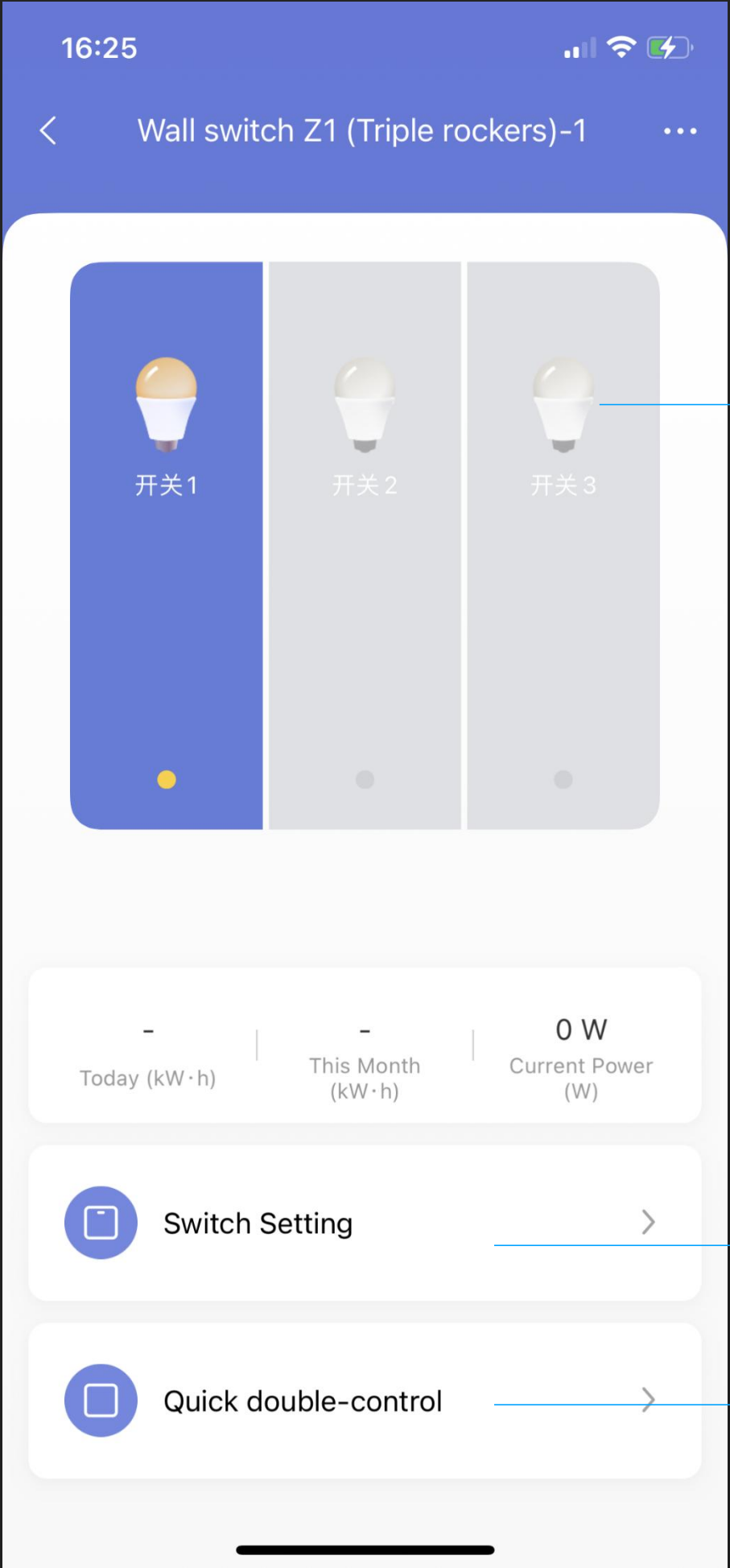
- 1. Equipped with power metering
- 2. Support for Mars technology

Non-Neutral mode:

- 1. Anti flashing mode switching
- 2. Manual power input

The four key version supports wireless switching modes in both single and zero fire modes, including single click, double click, and long press automation

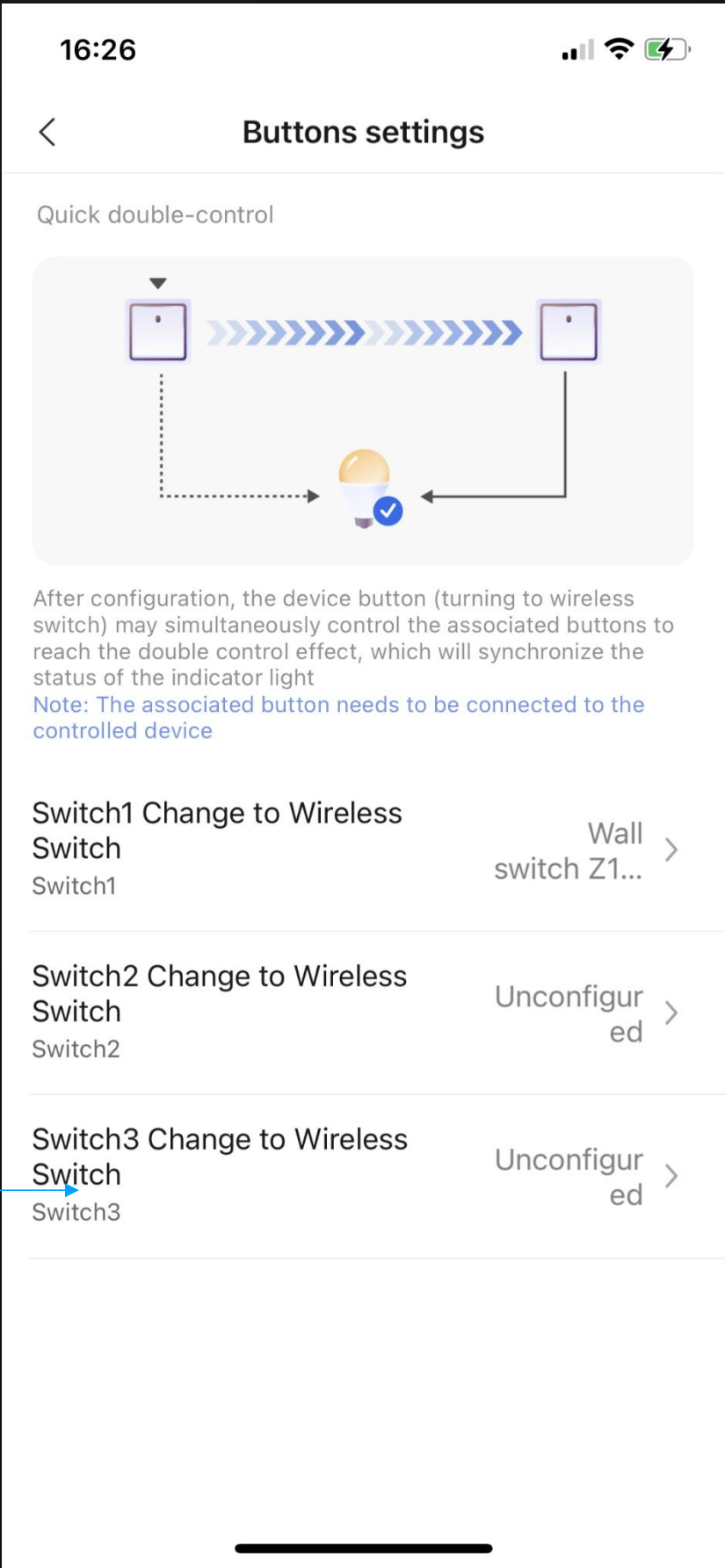
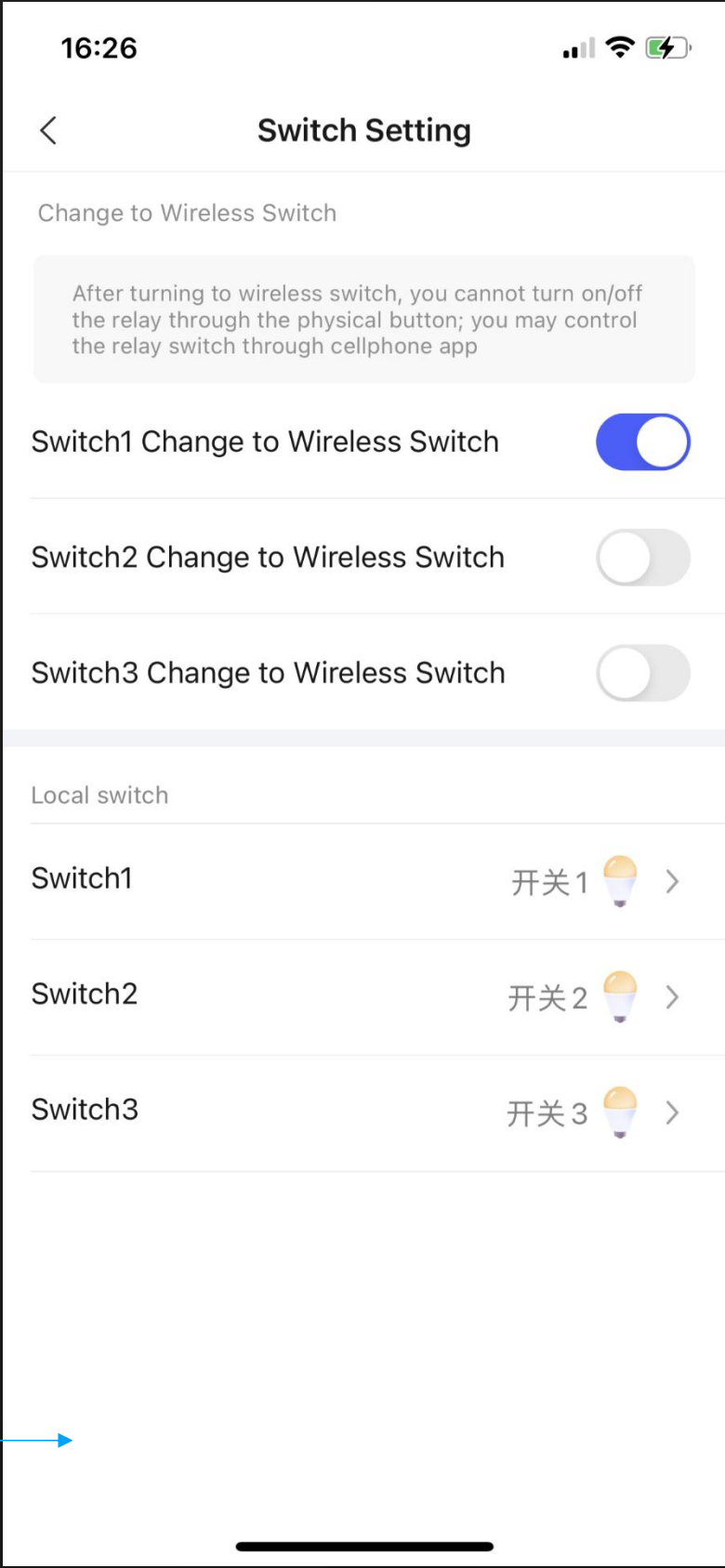
Installation - Main Page



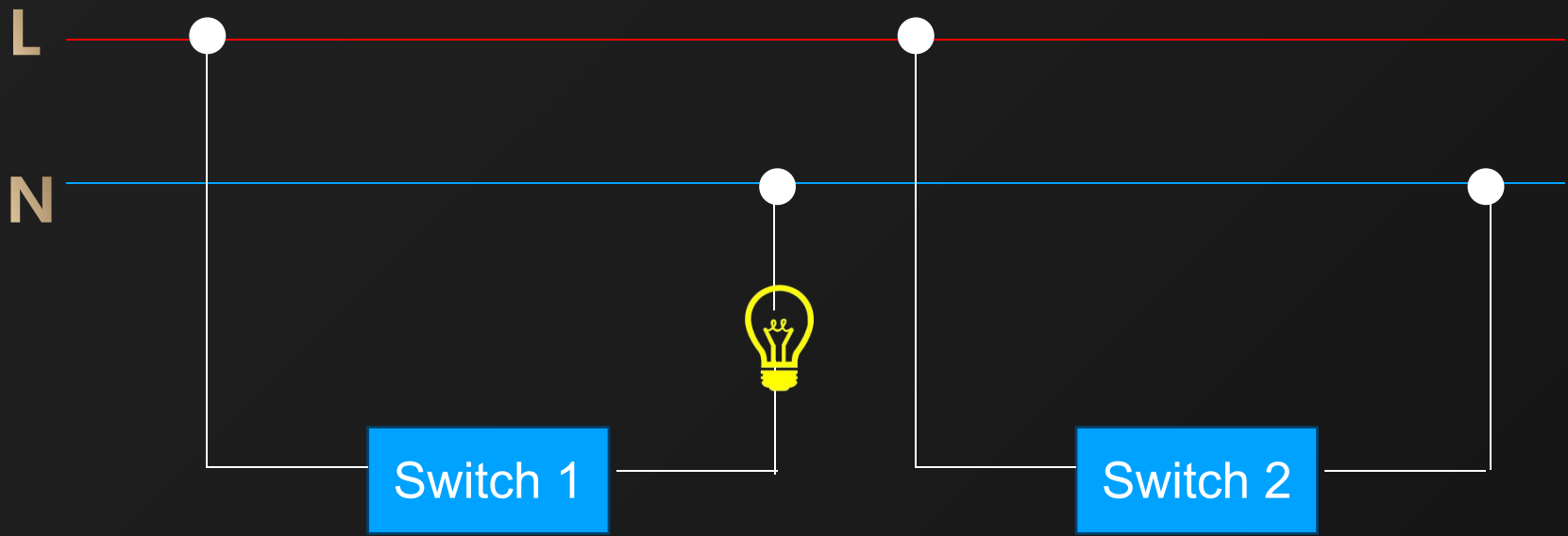
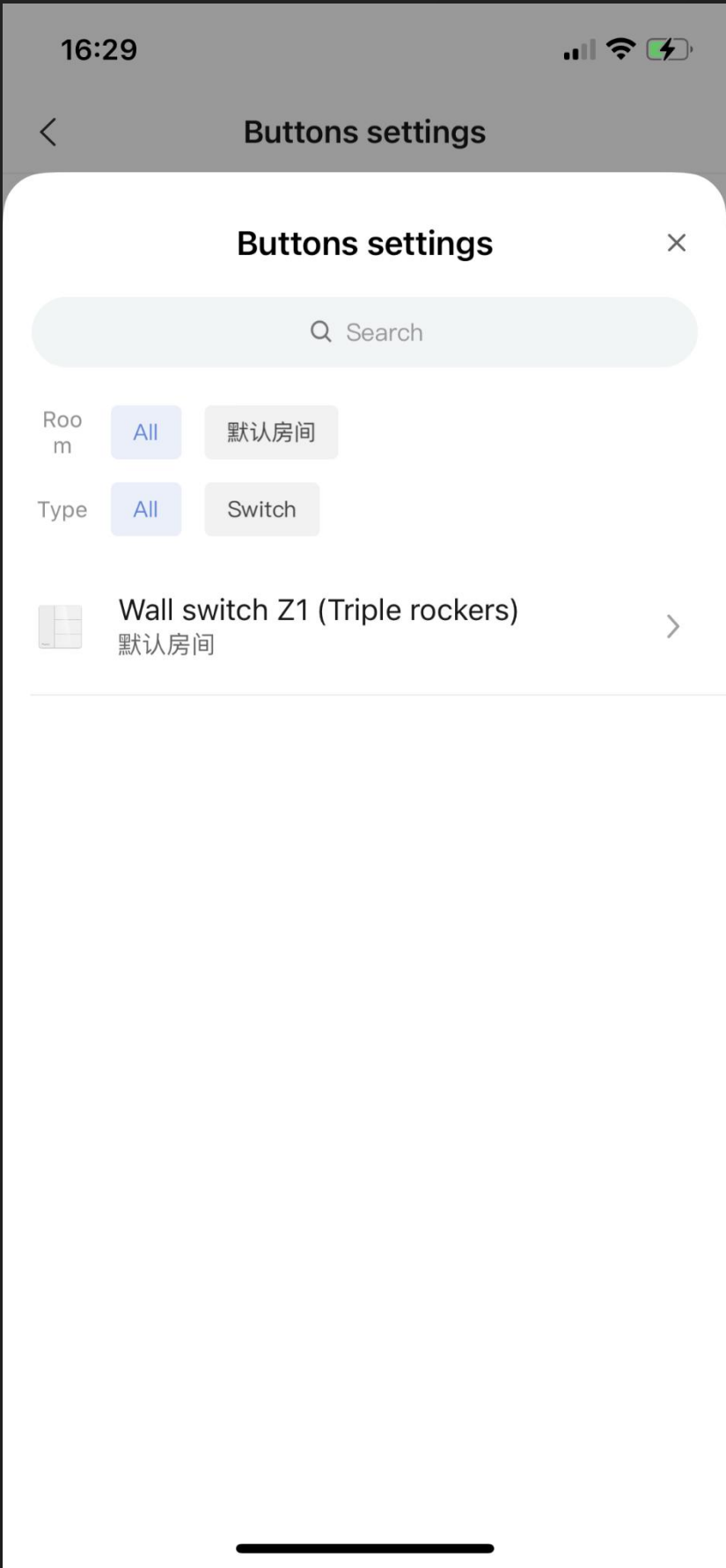
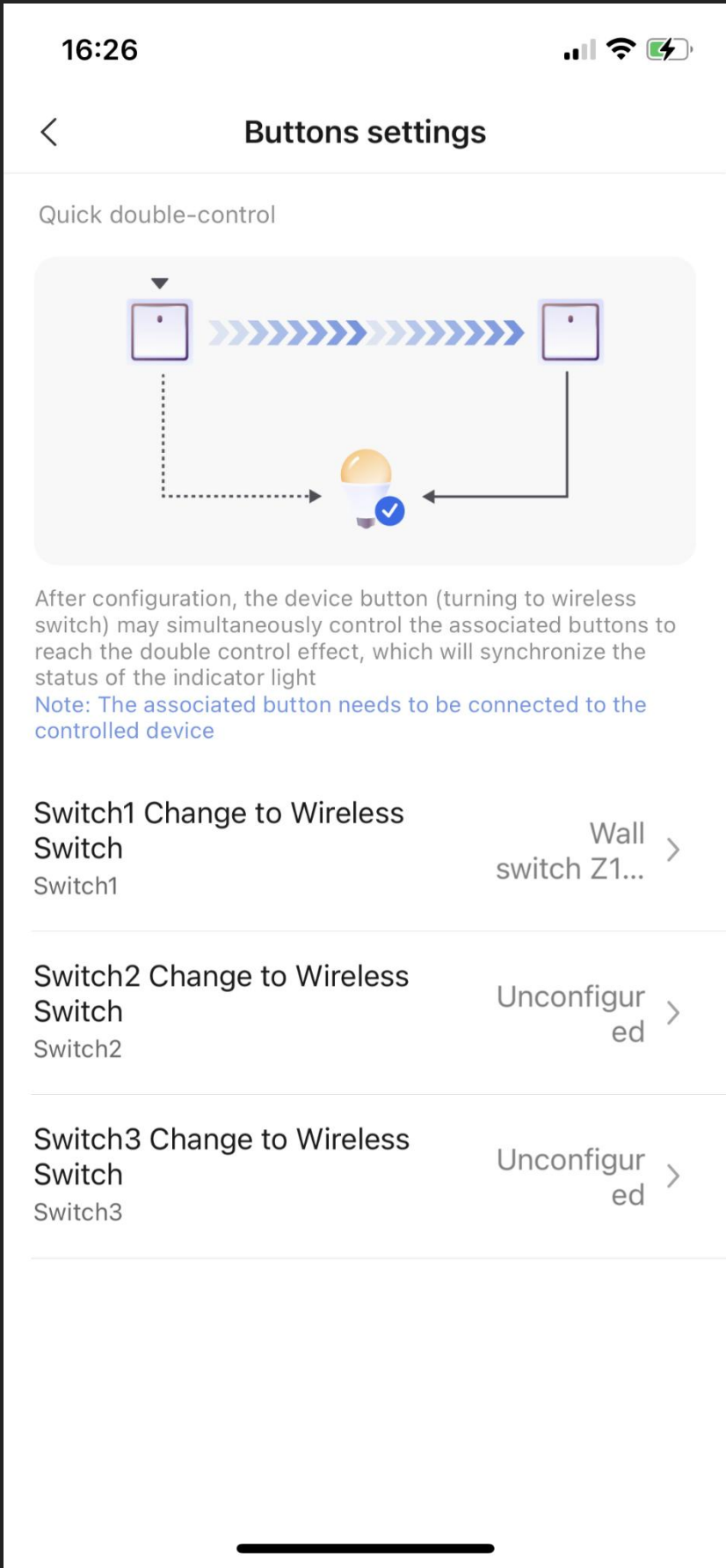
Switch Control

Switch Setting

Dual Control



Installation



If: wall switch 2 relay on then wall switch 1 relay on

If: wall switch 2 relay off then wall switch 1 relay off

If: wall switch 1 relay on then wall switch 2 relay on

If: wall switch 1 relay off then wall switch 2 relay off

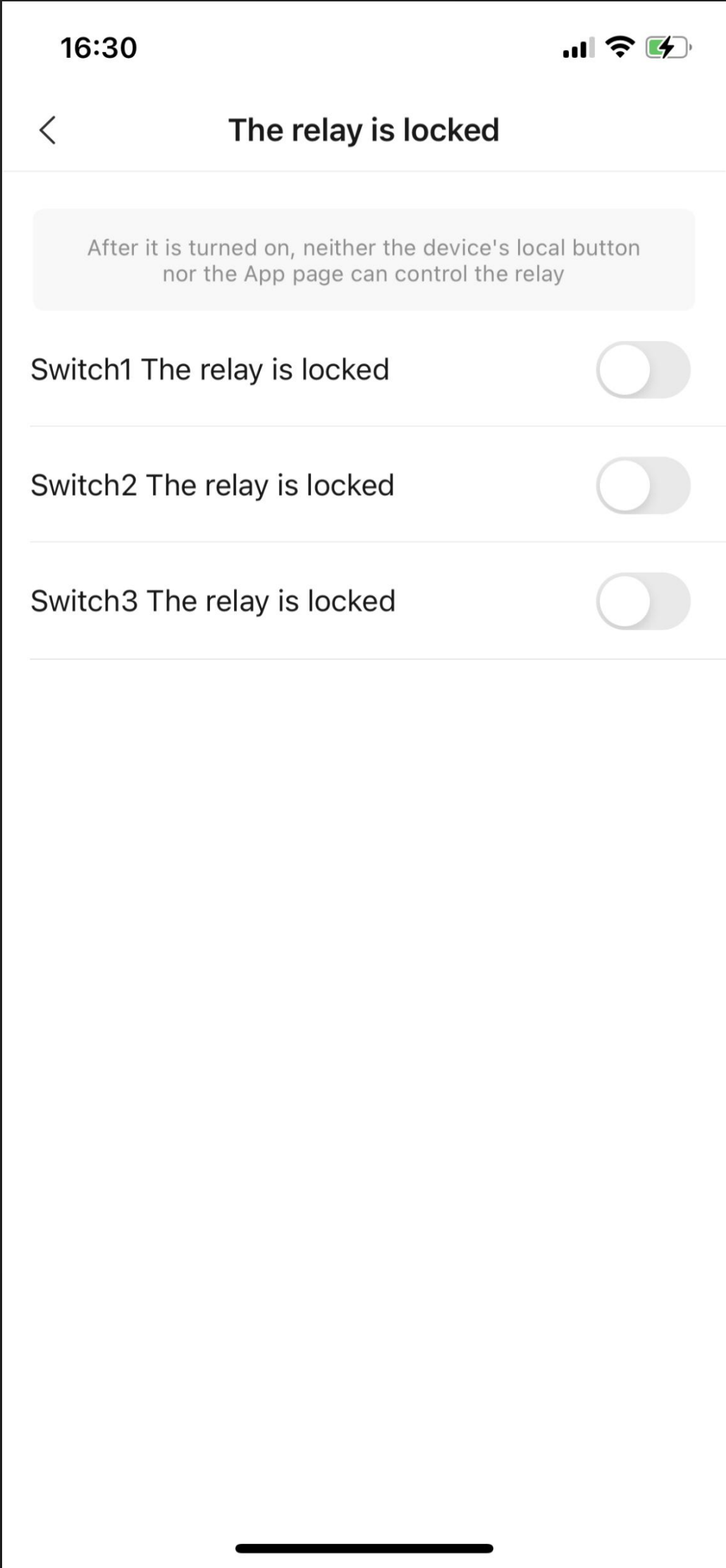
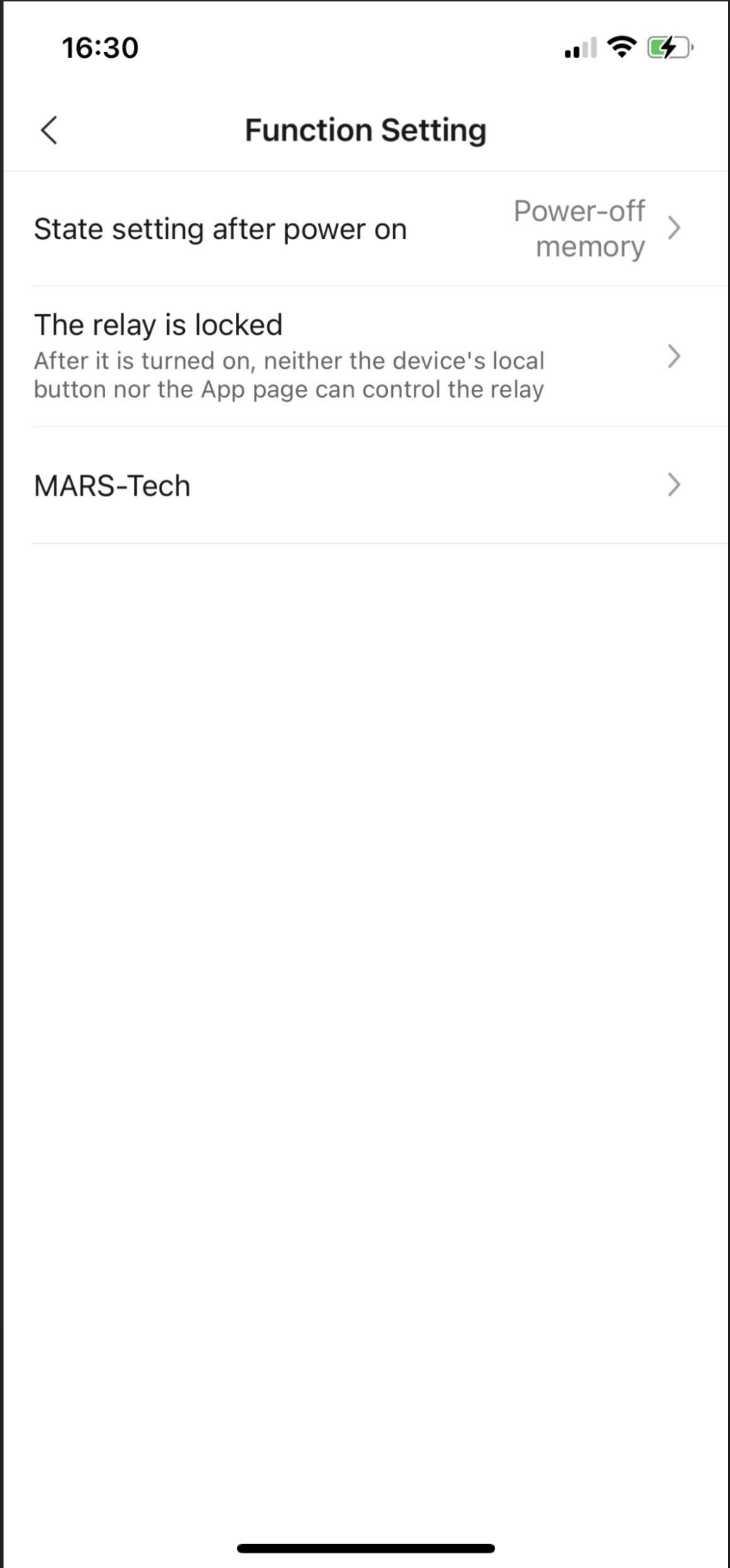
Associable device types:

All Aqara switches with indicator lights

Only Canon Z Series smart switch supports fast dual control configuration feature!

Z1 Pro, as the active control party, associates the controlled party with the connected light to achieve dual control and indicator light synchronization effect

Installation - Relay locking



Neutral & Non Neutral Mode support this function

Main application scenarios:

After switching to wireless, the language control on the app mistakenly triggered the shutdown relay, causing the back-end smart light to go offline.

After switching to wireless, opening the relay lock can avoid the above problems.

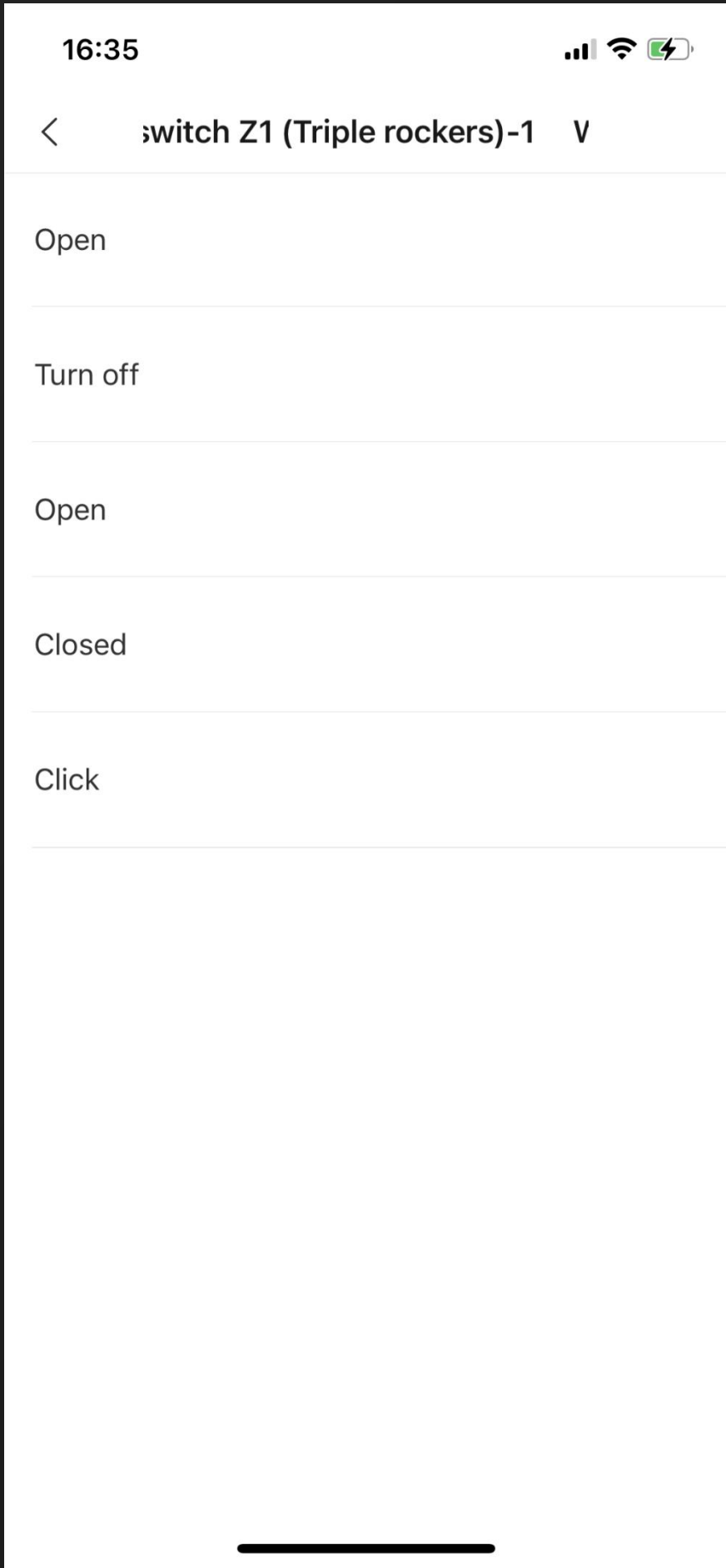
Simultaneously automated support for relay locking/unlocking.

Installation - Manual input power

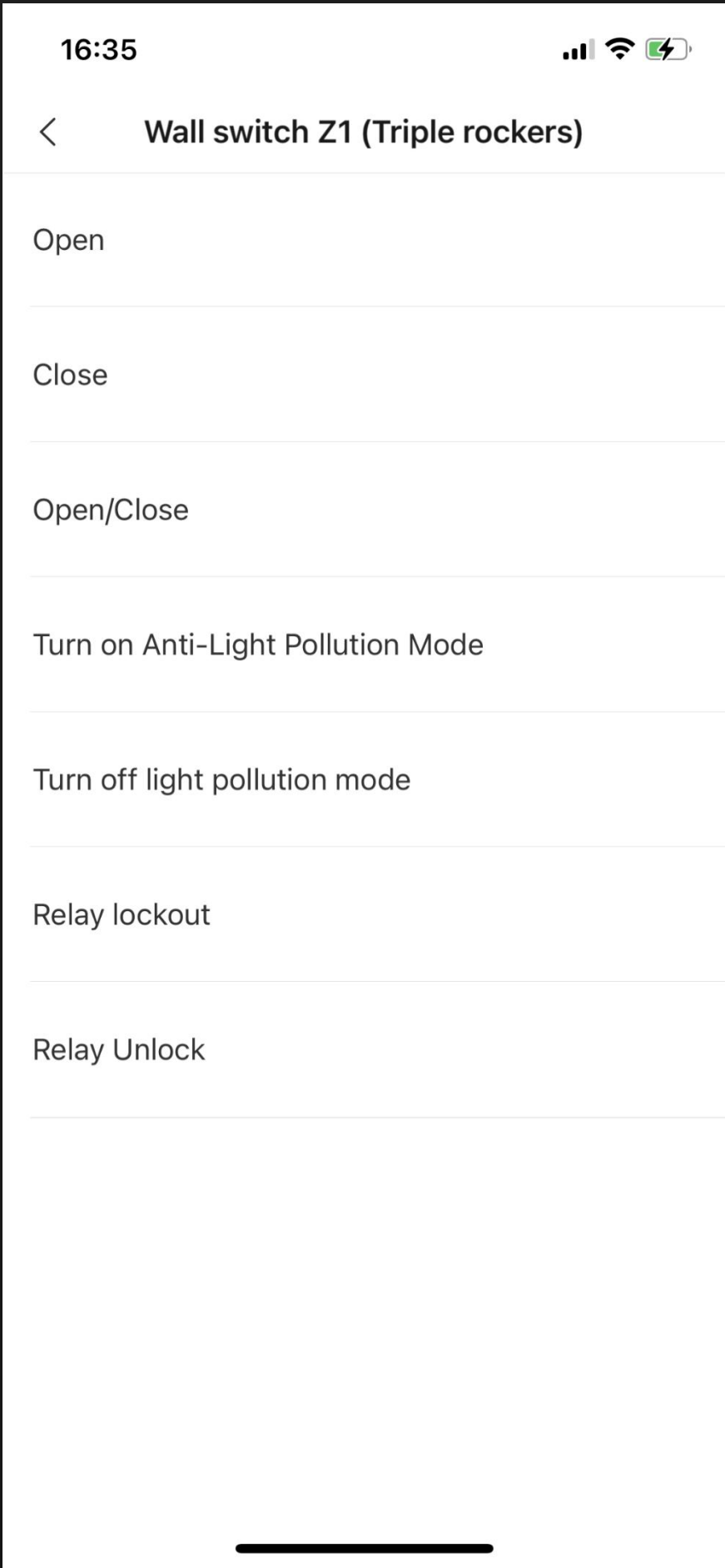


- Only supported in Non neutral mode
- Non neutral mode can also view power and battery data
- Each channel can be input separately, with an input range of 1-2200W to further empower ESG

Installation - Automation

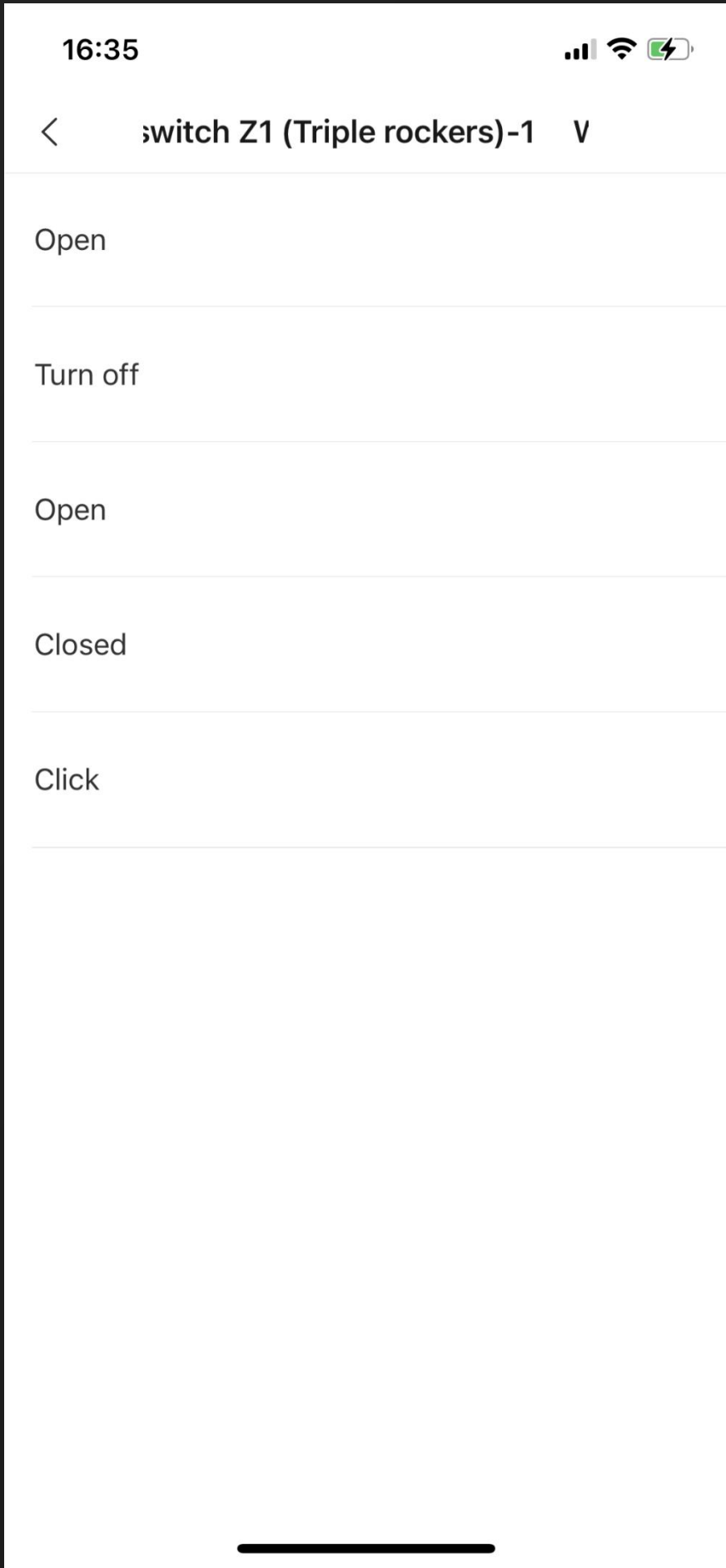


Automation
IF

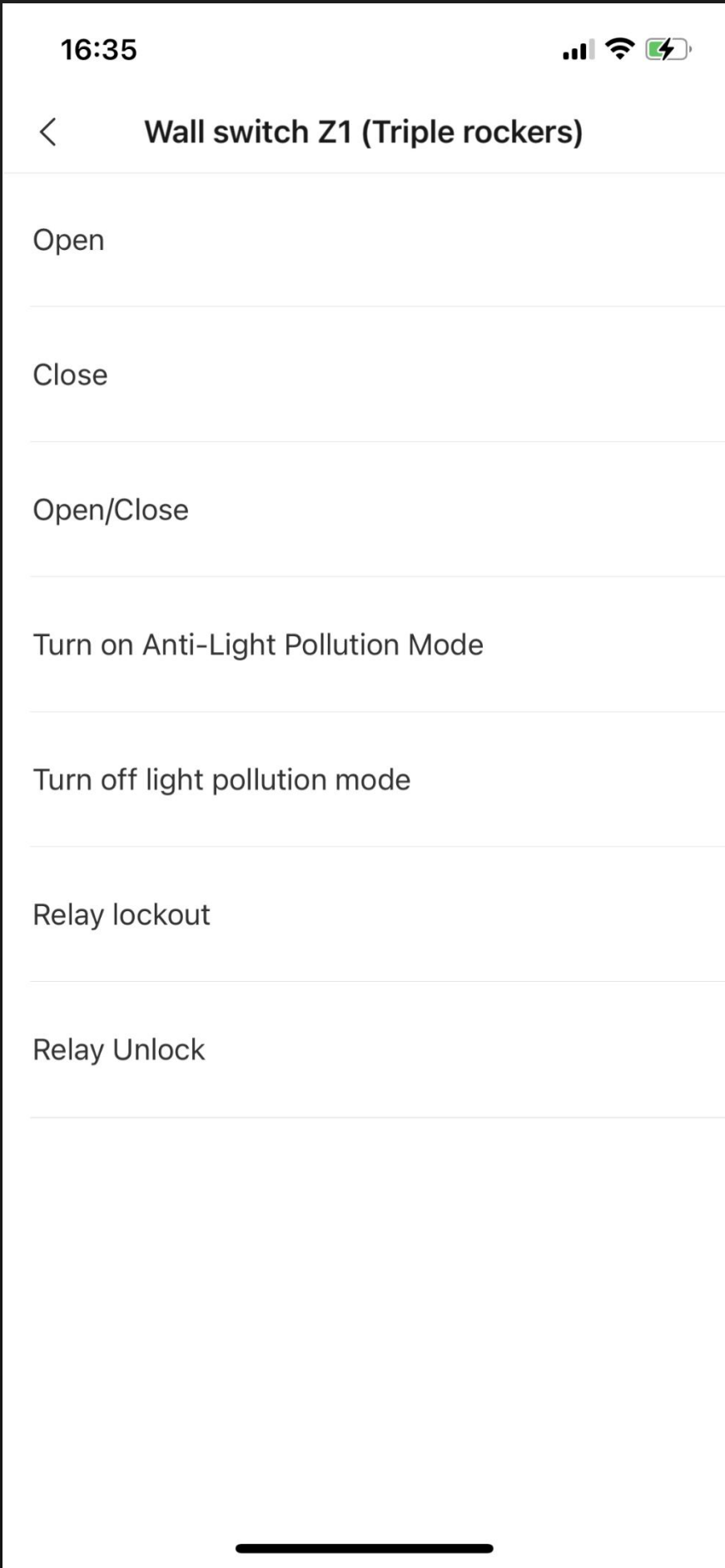


Automation
Then

Installation - Automation



Automation
IF



Automation
Then

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1. Does the Z1 Pro wall switch support both non neutral and neutral wiring environment?

Yes, Z1 Pro wall switch adopting a non neutral/neutral compatible hardware design, it can be installed normally regardless of whether your home is non neutral or neutral wiring system, without worrying about buying the wrong product.

2. Will there be a short circuit if the wiring hole is connected incorrectly?

If the wiring hole is incorrect, the wall switch may not work or even be short circuited and burnt out. Please strictly follow the wiring instructions for wiring, or have a professional electrician install it!

3. How to reset the smart wall switch Z1 Pro for binding Aqara Home APP?

Every time the device is powered on without binding, it will enter the binding state (blue indicator light flashing);

Reset after binding: Quickly double-click any button and press for 5 seconds (the fourth button in the four-button version cannot be used for resetting) until the blue indicator light flashes, and the device is in the binding state.

4. Does the Z1 Pro wall switch support dual/multi control functions?

Firstly, by combining the Z1 Pro wall switch with the wireless switch, it is very easy to achieve dual/multi control functions. The wireless switch can be placed in most positions of the home and linked to control the smart wall switch; and Z1 Pro switch supports fast dual control function, which can quickly associate other switches of Aqara on the APP to achieve dual control and synchronize the status of indicator lights.

5. How much power does the Z1 Pro wall switch require to be paired with lights in order to function properly?

Non neutral wiring: Generally, each load can support a minimum of 3W energy-saving lamps, 5W LED lamps, or 16W fluorescent lamps. However, for some niche brands or lamps with poor materials, due to the internal circuit design of the lamps, even if the power exceeds the above requirements, it may cause abnormal phenomena such as lamp flickering and switch crashes. Users are advised to choose carefully. The maximum load of the total number of circuits shall not exceed 2200W.

Neutral wiring: there is no minimum load requirement, but the maximum load of the total number of circuits is required to not exceed 2200W.

Special attention:

1. If it is an old-fashioned lamp with a starter, please replace it with an electronic starter.
2. Smart lights (including but not limited to dimmable, adjustable mode, color changing lights, gradient lights, and lamps with built-in controllers) and lights with lights are not supported under non neutral wiring. Meanwhile, non neutral and neutral do not support high-power appliances such as Bath heater.
3. For more information on supporting lighting fixtures, please consult customer service.

6. The Z1 Pro indicator light of the Canon wall switch is displayed normally, but the relay cannot be controlled by clicking the button.

1. Confirm if Z1 Pro switch is set in wireless connection mode in the APP. If it is, the local button will not be able to control the relay.
2. Confirm if the relay lock is set in the APP. If it is set, both the local buttons and the APP cannot control the relay.
3. Open the panel, loosen the two screws securing the switch slightly to avoid deformation of the base, and then try again to see if it can be controlled normally.

7. No neutral wall switch flickering problem

1. Confirm whether the matching lamp type is a supported lamp, and whether the matching lamp power meets the required wall switch support lamp type.
2. Confirm whether the single fire wall switch is Z1 Pro wall switch (no neutral mode). If so, please check if the anti flashing mode is turned on in the APP.
3. Confirm if there are flickers and flickers when it is newly installed. If so, it is difficult to adapt and there is no solution for the time being. It is recommended that the customer replace the higher power/quality lighting fixtures of a large brand (due to the principle of no neutral switch power supply, flickering cannot be completely avoided. It is recommended to install high-power lighting fixtures of a large brand to reduce risks).
4. Confirm if there is a flicker after connecting to the network. If so, confirm if the hub is very close to the router. If it is very close, it is recommended to change the location of the hub.
5. Check if the hub and TV very close together, if so, it is recommended to change the location. The main reason for keeping hubs, routers, and televisions away from each other is due to concerns about interference from the large data volume transmission of WiFi on the Zigbee signal.
6. If there is no flashing before connecting to the hub, it may be due to interference in the WiFi channel.

Please Note: It is not recommended to add capacitors, ballasts, or weak current protectors, as there is no guarantee that they will solve the problem and there may be a possibility of burning out the components.

THANK YOU