Smart Embedded Switch
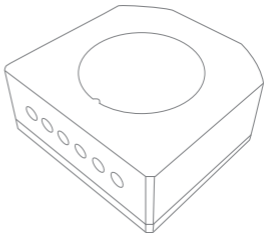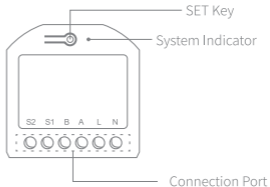## &
Smart Embedded Curtain Switch

User Manual

This manual uses Two-Gang switch as an example

Product Illustration

SET Key

System Indicator

S2 S1 B A L N

Connection Port

This manual uses Two-Gang switch as an example.

Features

● Supports IEEE 802.15.4 ZigBee / SmartRoom protocol;

● Through the linkage with the binding switch and other equipment, with the wireless gateway, common switch can be controlled remotely;

● Timing/Scene/Linkage features can be realized after work with Smart Home APP, to show the smart life;

● Directly install it in cassette of wall switch, making normal switch become smart;

● This product（not include curtain switch）can also be directly connected to the load, and placed on top of the ceiling or load, etc., so that the intelligent load.

Network Setting

1. Before setting, please make sure the gateway (need to be purchased) works normally and the ZigBee network indicator flashes, also the product is in a power-on state and within valid communication scope of the wireless gateway.

2. Before operating, please make sure the product is not connected to any other gateway; or exit the connecting ZigBee network before networking again (new product can be connected to the network directly).

3. Networking

①First time to join the network

● Allow the gateway for networking (refer to the gateway manual for details);

● When use the product for the first time, power it on and it will apply to join the ZigBee network automatically;

● Then the [System Indicator] flashes while searching for the network;

● When successfully joins the ZigBee network, the [System Indicator] stays on for 2 seconds and then goes out.

②Manually join the network

Fast click【SET key】once, in the process of searching the network,【System indicator】flashing. After successfully joining the ZigBee network,【System indicator】turns off for 2 seconds.

Note1: Click the【SET key】one time and【System indicator】flashes once to indicate successful networking.

Note2: One-Gang switch will buzzer chirping when searching network and join the network successfully.

4. Quit ZigBee Network

Press【SET Key】continuously 6 seconds, 【System Indicator Light】flashes evenly 4 times then stop. The device quits ZigBee network.

Note: Product quit after successfully joining network.

5. Binding Setting

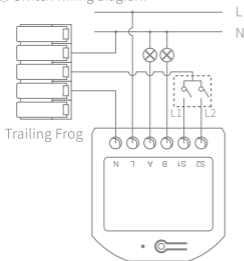This device could be bound with scene switch or other remote controllers.

Login the gateway APP. After joining the network successfully, follow the APP guide to complete binding setting according to the software hint.

If binding is successful, the indicator of the binding switch (bound device) flashes three times, if binding is unsuccessful, the indicator flashes six times.

Note: The curtain switch needs to be bound three times with"on,stop,off", corresponding to the curtain"on, stop, off".
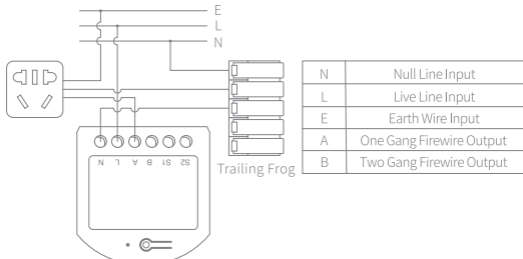
Installation Guide

① Switch wiring diagram

N	Null Line Input
L	Live Line Input
A	One Gang Firewire Output
B	Two Gang Firewire Output
S1	Access Mechanical Switch L1
S2	Access Mechanical Switch L2
⊗	Load

Note1：In order to facilitate the connection, and the trailing frog is recommended.
Note2：One Gang switch have no B、S2 port, and have metering function.
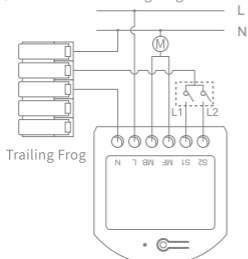
⚠ Please make sure to turn off the power before installation.
Do not reverse null and live wire! Electrical work is dangerous, non-professionals are not allowed to operate!

Socket wiring diagram for One Gang and Two Gang Switch

N	Null Line Input
L	Live Line Input
E	Earth Wire Input
A	One Gang Firewire Output
B	Two Gang Firewire Output

Trailing Frog

②Curtian Switch Wiring diagram

Trailing Frog

N	Null Line Input
L	Live Line Input
MB	Motor CCW control line
MF	Motor CW control line
S1	Mechanical switch L1
S2	Mechanical switch L2
Ⓜ	Curtain motor

Note: S1 Switch corresponding to MF (CW,ON)

S2 Switch corresponding to MB (CCW,OFF)

③ Remove switch panel, connect the device to switch/socket and wires in wall junction box according to wiring diagram.

mechanical switch

Embedded Switch
(Two-Gang, L&N,16A)

wall junction box

④After wiring properly, please check if there's short circuit between the wiring of this product and the other bare copper wire on the wall. If all right, place this product in the wall box, cover the mechanical switch and the installation is complete.

Note: Please set the network before the decorative shell (see network settings section).

Electrical Parameters

Communication Protocol	IEEE 802.15.4 (ZigBee/SmartRoom)
Antenna Type	FPC Antenna
Power Supply	AC 100-240V, 50/60Hz
Standby Power Consumption	≤0.5W
Working Frequency	2405-2480 MHz
Each Loop Maximum Resistive Load (Such as incandescent, halogen lamps, etc.)	3600W @240V~ (One-Gang switch)
Each Loop Maximum Inductive and Capacitive Load (Energy-saving lamps, fluorescent lamps, LED lights, etc.)	One-Gang switch:1200W @240V~ Two-Gang switch:600W @240V~ for each Gang 1200W total
Motor power (for curtain switch)	240V~:300W 100V~:125W

LED lights

fluorescent lamps

energy-saving lamps

Structure Parameter

Dimension (length×width×height)	42 x 42 x 17mm
Material & Color	PC, Black
Flame Retardant Grade	UL94 V-0
Net Weight	30g (Switch)/25g(Curtain Switch)
Working Temperature	-10°C~+45°C
Working Humidity	≤95%RH (Noncondensing)

Precautions

● Please turn off the power before installation! Live danger, non-professionals are not allowed to operate!

● It is recommended to use good quality, regular brand switch and load. The use of substandard products or shoddy products may lead to lower performance of this product.

● This product must be installed in plastic junction box! If installed in a metal junction box, wireless communication signal may be weaken and insulation effect may be affected.

● It is recommended that the product be placed in a region far from the source of interference, such as washing machines, microwave ovens, refrigerators, routers, magnetic field etc., otherwise it may affect the product communication sensitivity and its performance.