



BLM Smart Switch

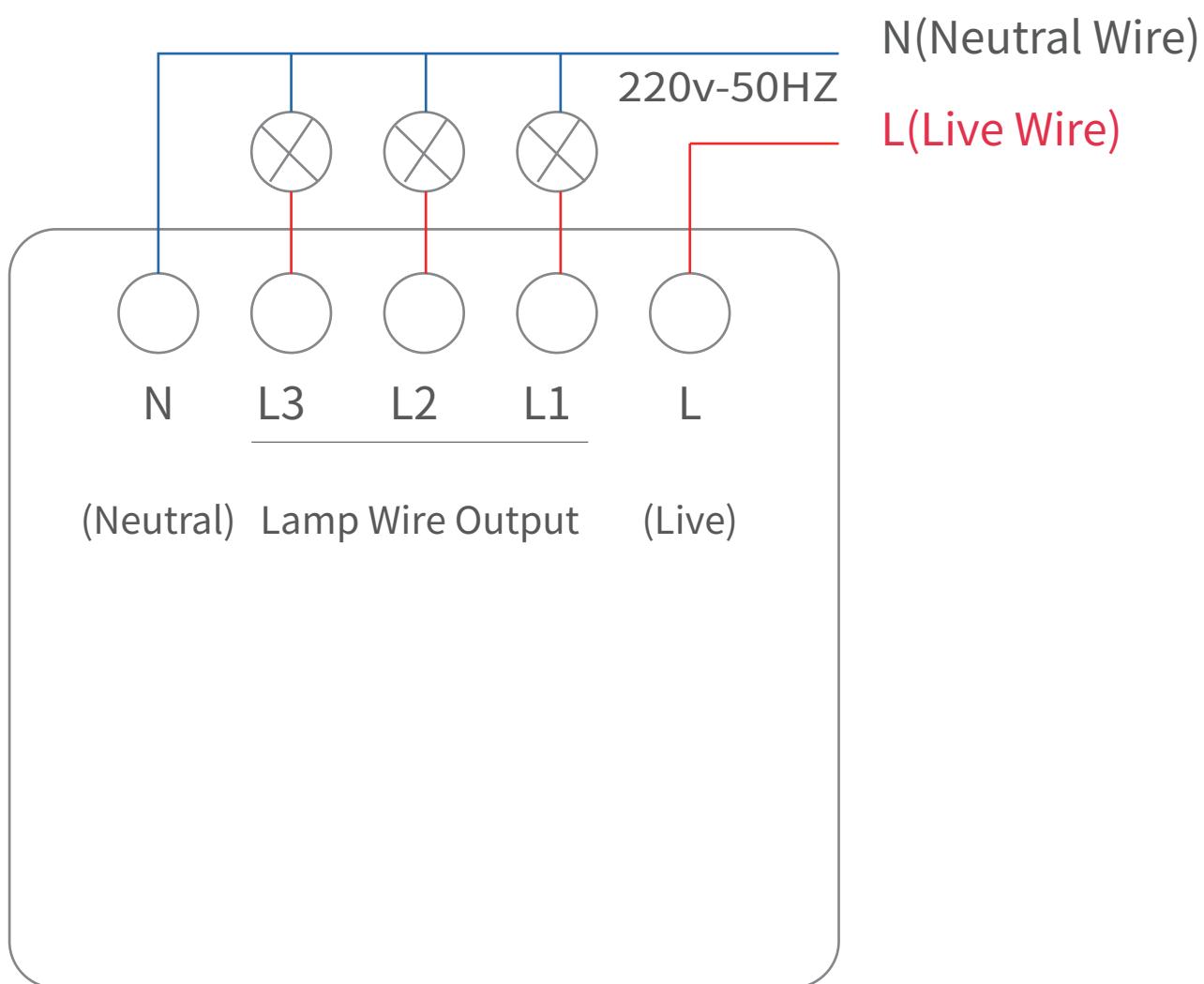
User Manual

Specifications

Product Name:	BLM Smart Switch
Product Model:	BLM-L1-1, BLM-L2-2, BLM-L3-3, BLM-L4, BLM-L4-2
Networking Method:	BLE Mesh 5.0
Mesh Forwarding:	Supported
Communication Distance:	< 20m (affected by environment)
Working Voltage:	100-240V~, 50/60Hz
Single Channel Rated Load:	≤ 100W for LED lamps / fluorescent lamps ≤ 500W for incandescent lamps
Total Rated Load:	≤ 400W for LED lamps / fluorescent lamps ≤ 1200W for incandescent lamps
Product Size:	86X86X36mm
Packaging Size:	95X95X42mm
Product Weight:	1-Gang: 152g, 2-Gang: 162g, 3-Gang: 170g, 4-Gang: 177g
Packaging Weight:	1-Gang: 178g, 2-Gang: 188g, 3-Gang: 197g, 4-Gang: 205g
Product Color:	Gray, Black, Gold, White
Installation Method:	Embedded installation in 86-type wall box
Installation Hole Distance:	60mm (standard)
Working Environment:	0-40°C, working humidity 10%-90%RH (non-condensing)

Product Description and Installation

1. This product is designed for flush mounting and must be installed with a wall embedded box or surface-mounted box. The embedded/surface-mounted box should comply with GB17466.1 (depth should be $\geq 50\text{mm}$).
2. The wiring diagrams in this manual are for reference only. The rear panel shapes of different products may vary, but the wiring labels are consistent.



BLM Smart Switch

*To ensure stable and reliable operation, metal embedded boxes are prohibited for this product.

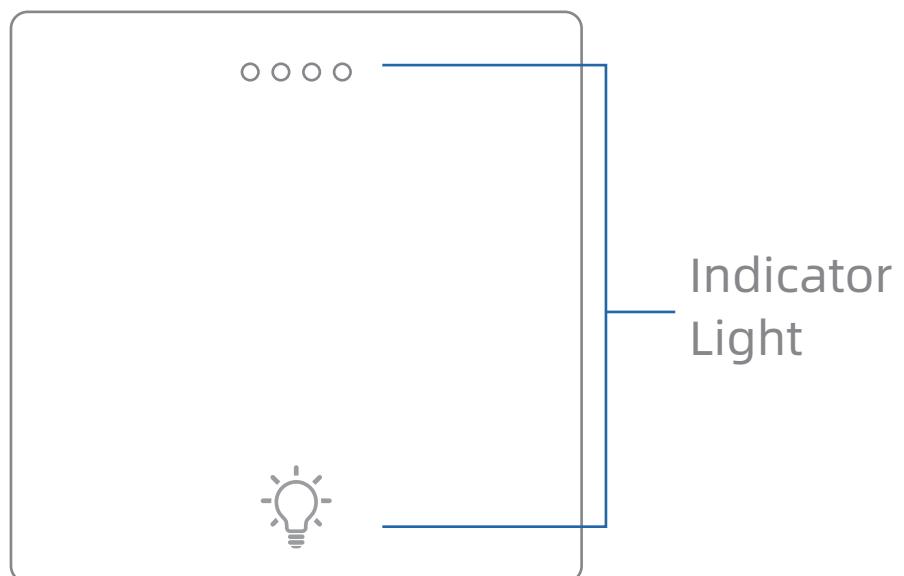
Product Debugging

1. Indicator Light Status

White light on: On state.

Orange light on: Off state.

White light flashing: BLE Mesh Provisioning.

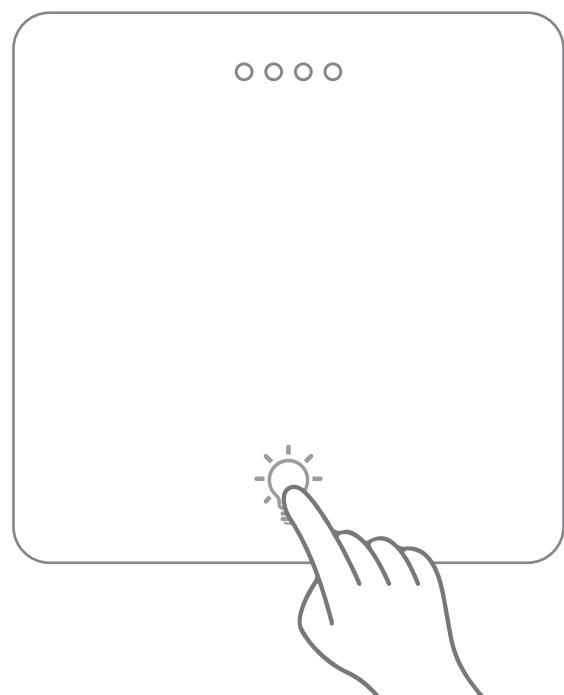


2. Device Provision

Press briefly twice, then long-press the third time until signal light flashing, release to enter BLE Mesh provision mode. (The switches that have been provisioned may be in a locked state. It needs to be provisioned within 5 minutes after power-on or unlocked in the APP first.)

3. Factory Reset

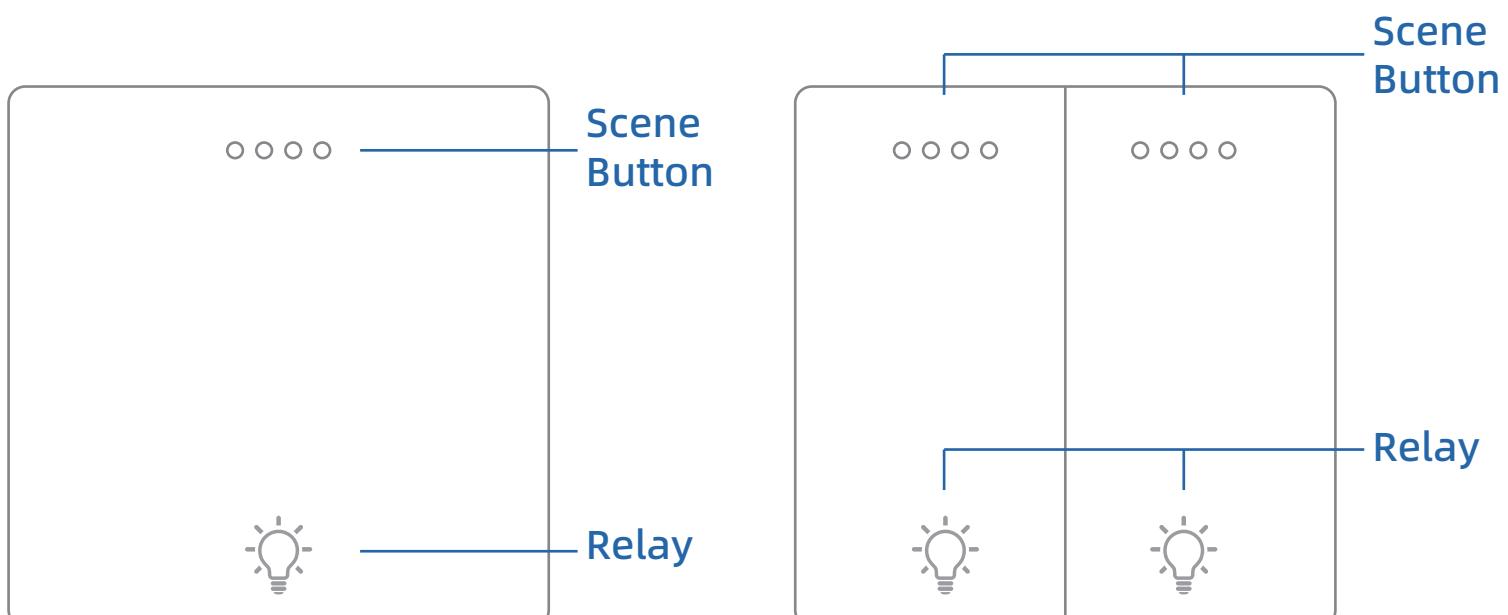
Follow step 2 to enter BLE Mesh Provision mode, then long-press until the device restarts for factory reset.



Function Description

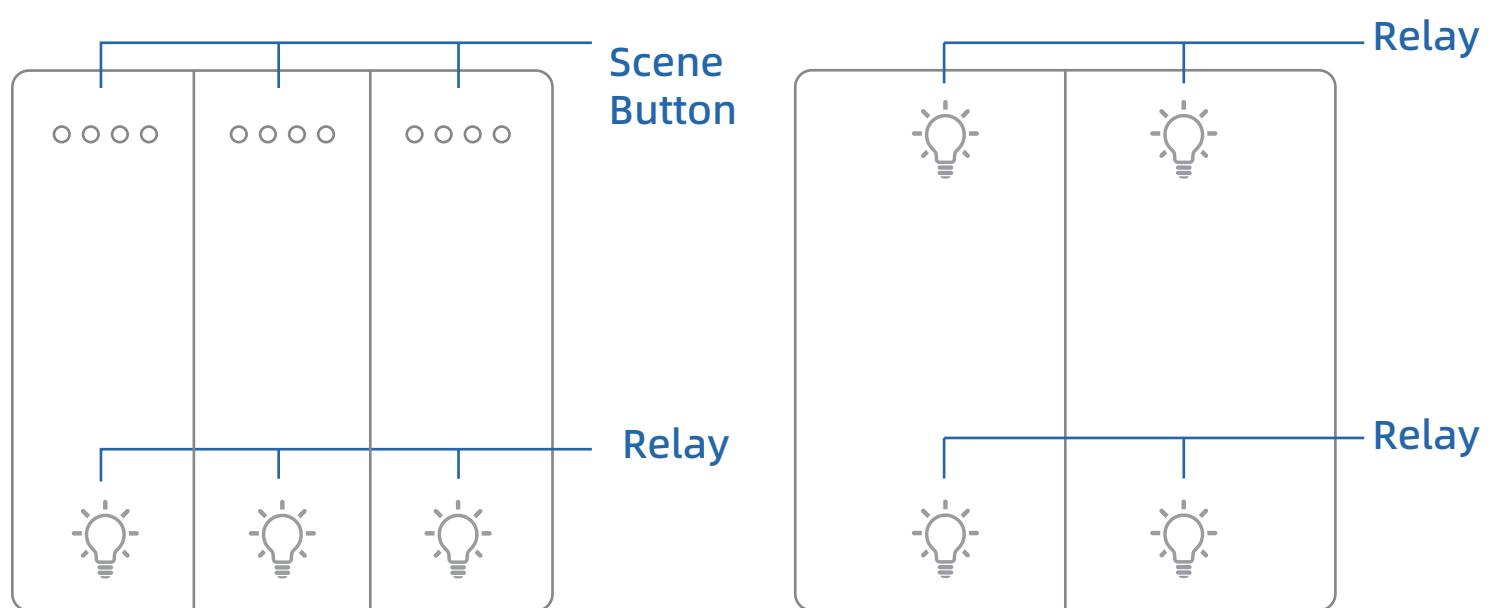
1. Switch Button Setting and Relay Association

The relay of the switch is default associated with one button position of the switch (as shown in the diagram). The relay can also be unassociated with the switch button, allowing the corresponding button to be configured as a scene or double control for other switches.



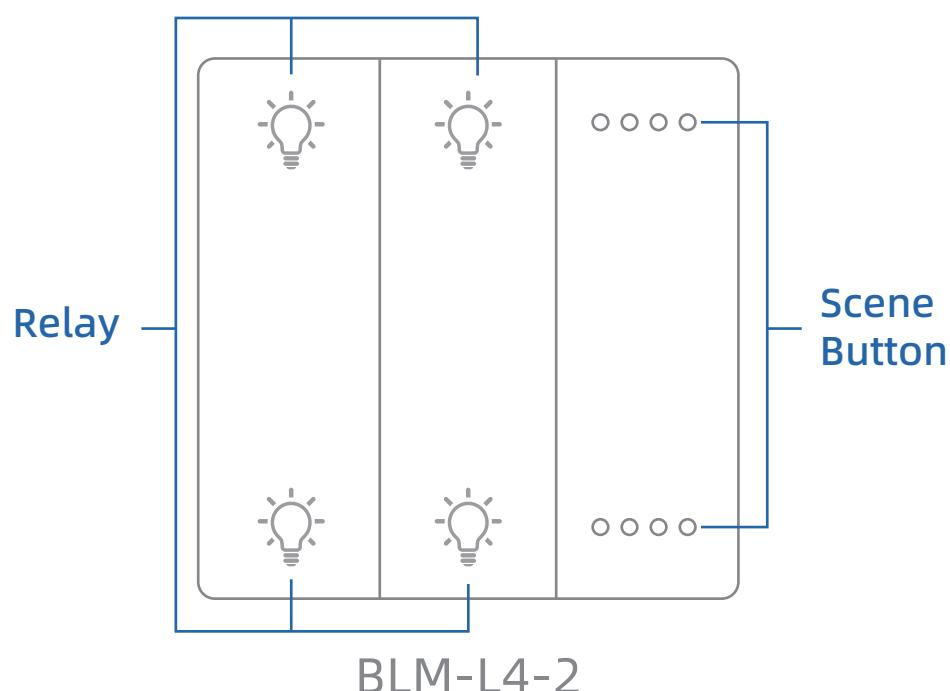
BLM-L1-1

BLM-L2-2



BLM-L3-3

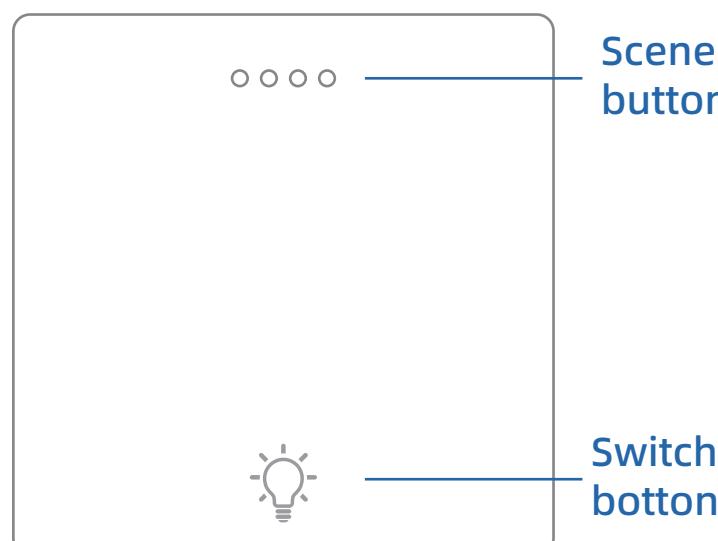
BLM-L4



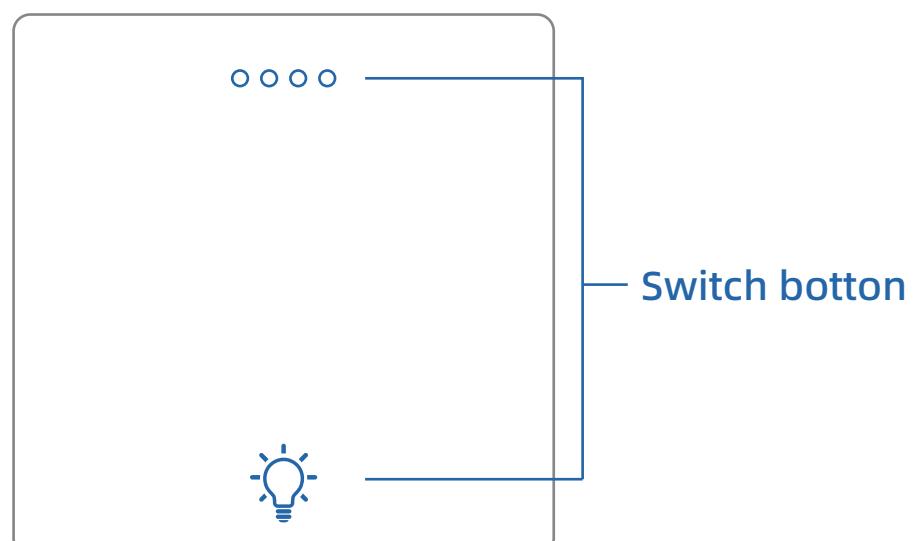
BLM-L4-2

2.Default Setting of Scene Buttons

The upper and lower buttons of the switch can be set with independent functions. Generally, the upper button serves as a scene button, and the lower button serves as a switch button. When the scene button has no function configured, it will default to synchronize with the lower switch button.



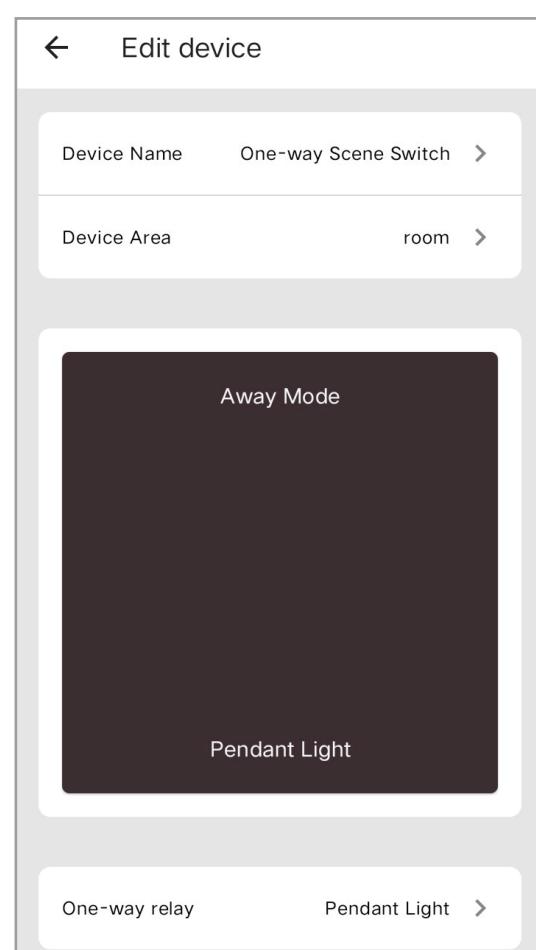
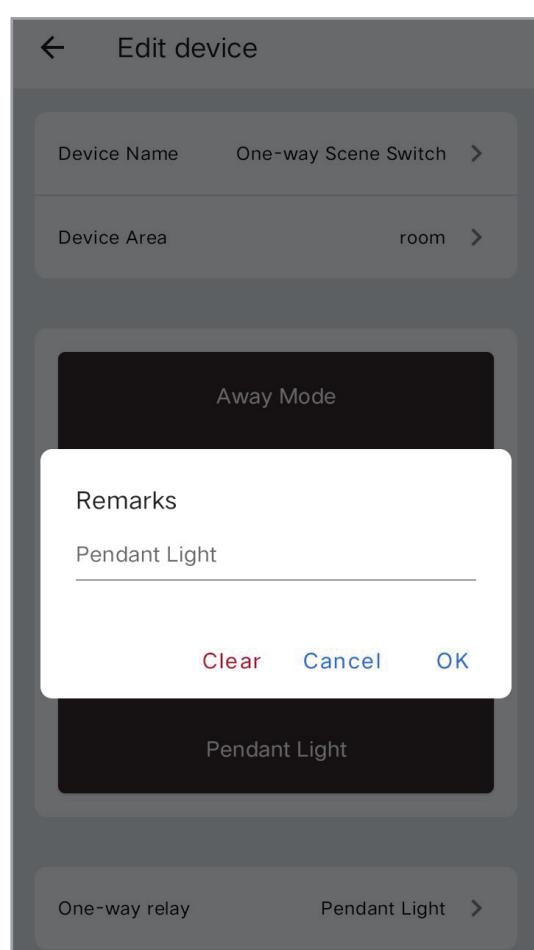
(Scene Button Configured)



(Scene Button Not Configured)

3.Customizing Load Names

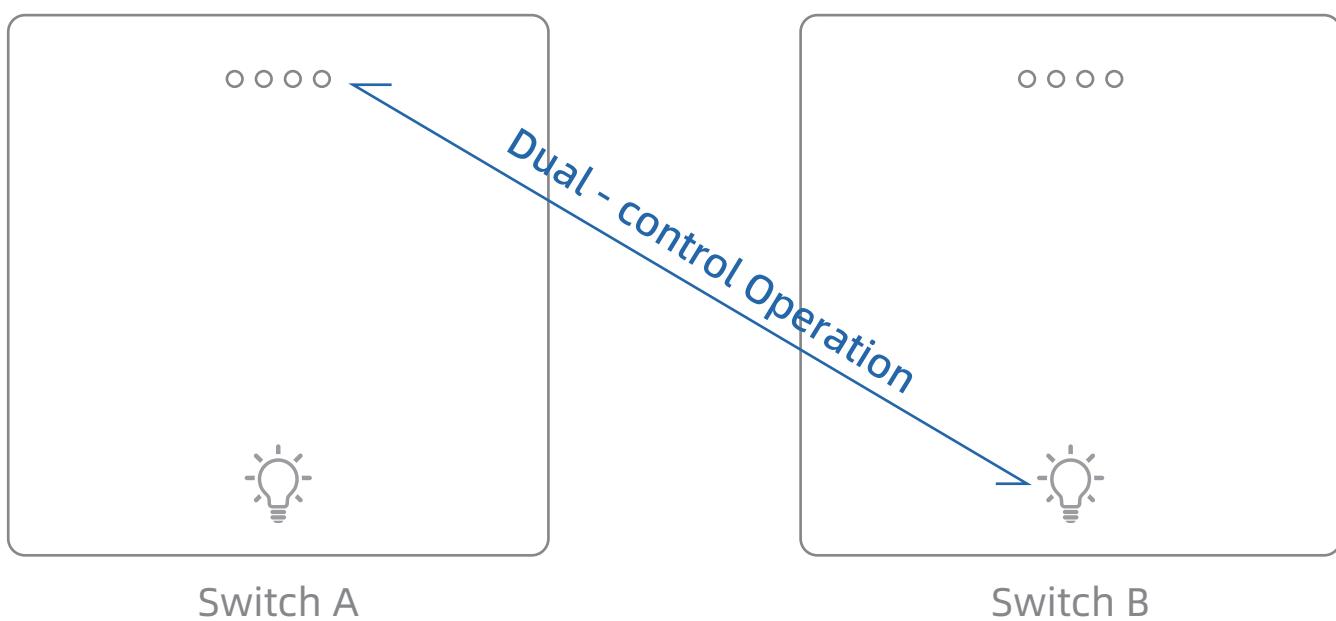
When setting the name of the button corresponding to the relay, the load name of the corresponding relay will be automatically synchronized. If the button is defined as a scene or other functions, the load name (such as chandelier, downlight, spot light, etc.) can be customized on the device details page. The load name will be used to synchronize with smart speakers for voice control.



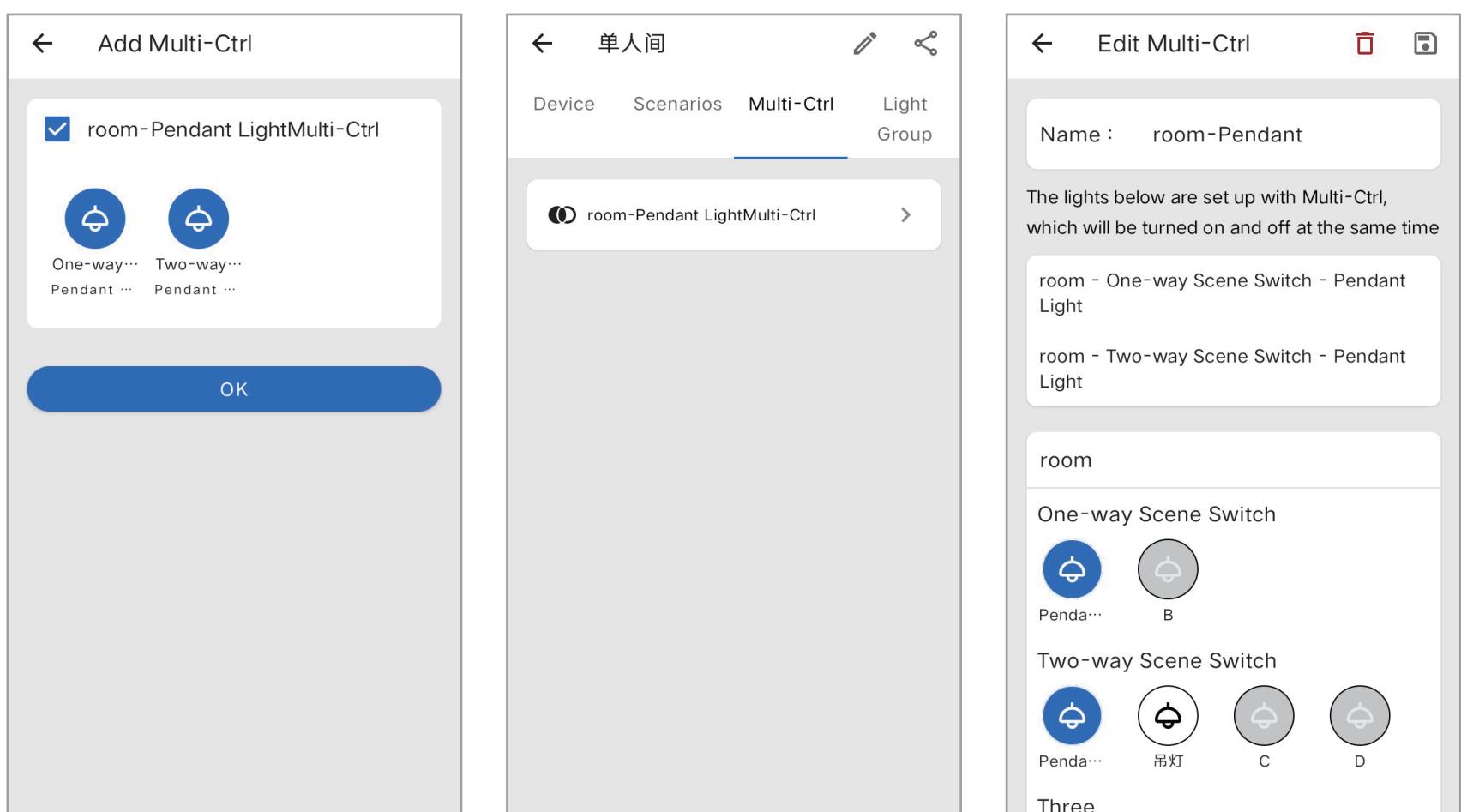
4. Dual Control Setting

The relay and buttons of the switch can be completely separated, and each button can be set as a double control with another panel. Double control can be associated with a relay or used as a virtual dual control button without relay association.

For example: The scene button of switch A can be associated with the relay button of switch B to achieve dual control.

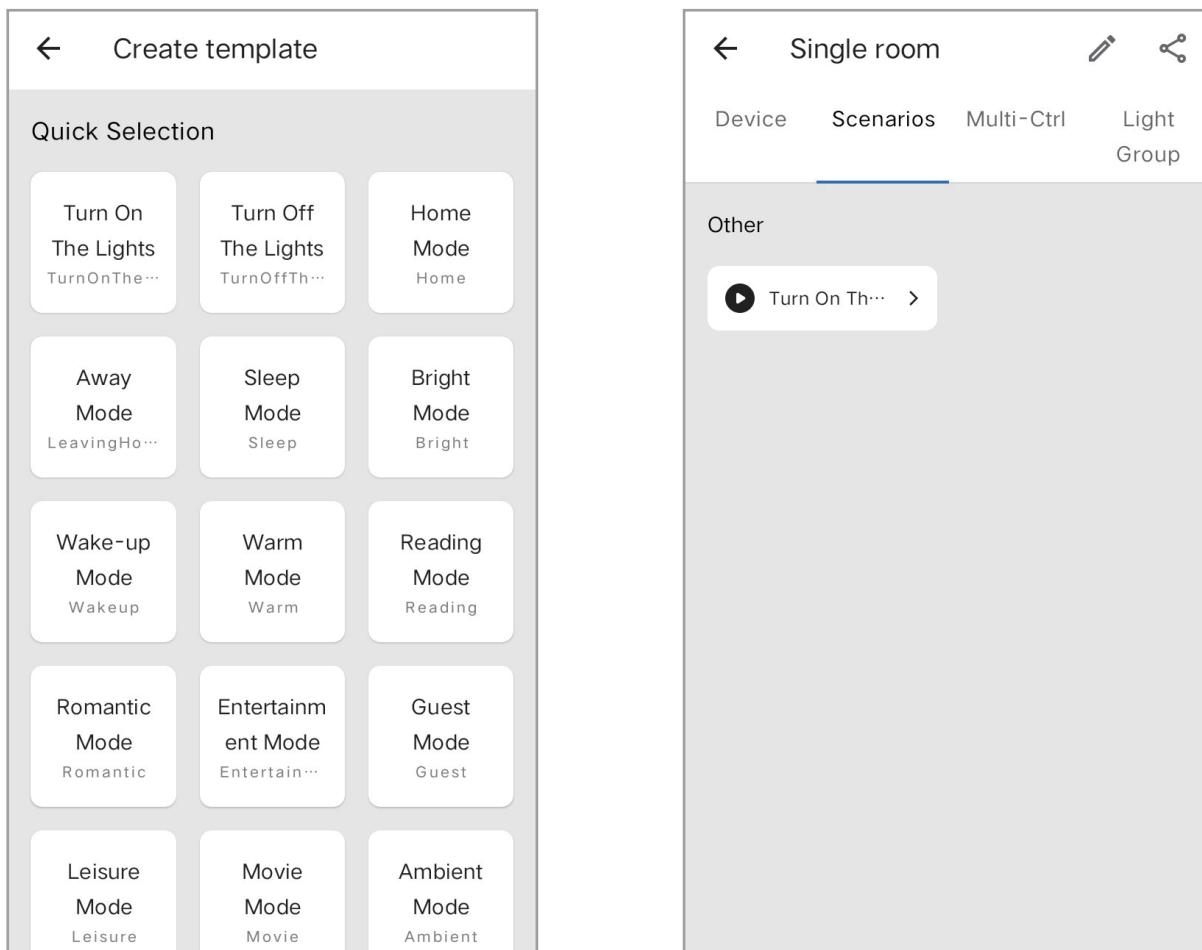


In the dual control interface of the APP, buttons with the same name will be automatically added to generate dual control logic, or you can click "Manual Add" to select different name buttons for dual control logic.



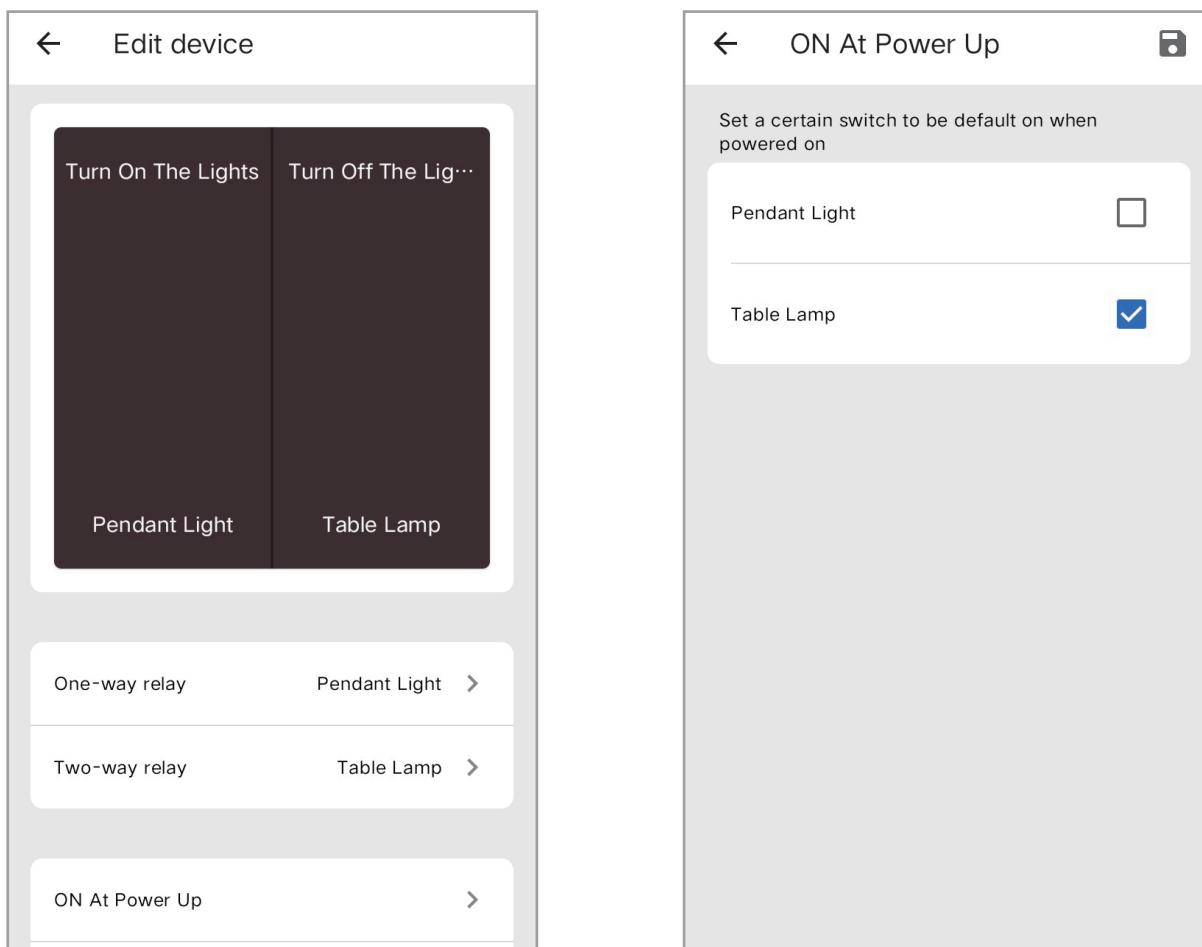
5. Scene Setting

Click the button position to set the scene, such as Bright Mode, or set it as a cycle scene like Total On/Total Off. After selecting the scene for the button, the corresponding scene name will appear in the home scene list. Click to enter the scene details to configure the scene functions and set the status of corresponding lights, curtains, air conditioners, etc.



6. Power - On State Setting

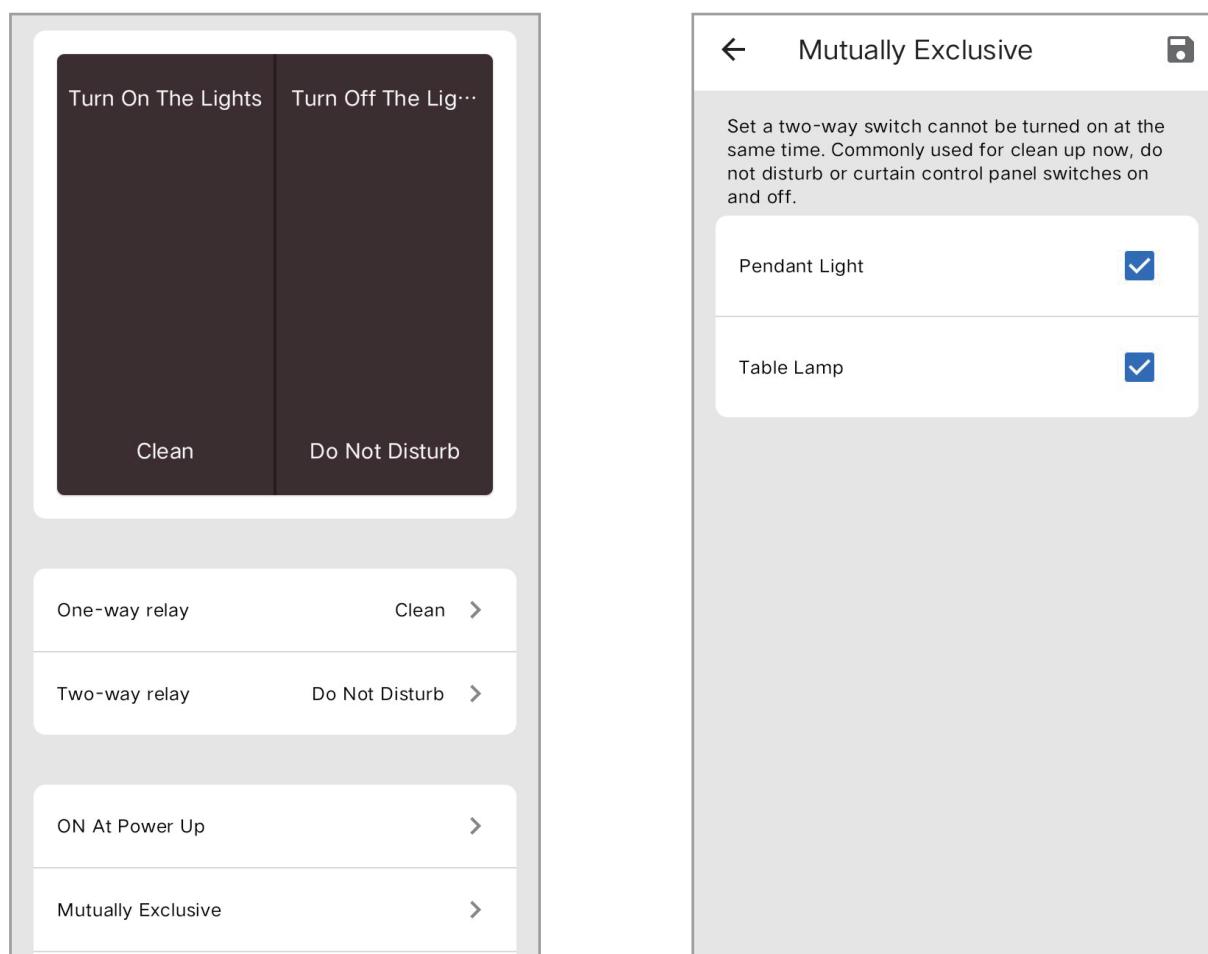
The switch relay is default in the off state when powered on. In the switch details page of the template, you can customize the power-on state of the switch relay.



7. Mutually exclusive state settings

The relays of the switch are default independently controlled per channel. In some cases (such as cleaning/do not disturb), two relays need to be set with mutual exclusion logic, which can be configured in the switch details page of the template.

Note: Relay mutual exclusion combinations must be 1-2 ways or 3-4 ways, not other combinations.



FCC Caution:

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. Any 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.