

ZJSBL7-100Z Series/Zigbee RC-RCBO

Pairing process

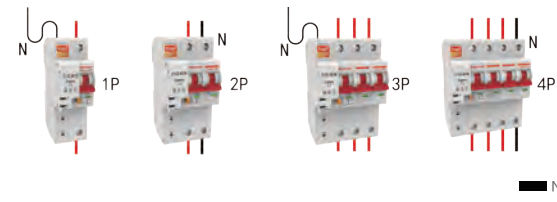
1. Download the "Tuya Smart" APP on the mobile application platform and register with your mobile phone number.
2. Before pairing this Zigbee device, you need to add a Zigbee gateway, the gateway is being paired
Please refer to the chapter on the back of this manual for details.



1. Enter the APP main page, click the red "+" button in the upper right corner; select "Manually add"->"Energy" in the section; select "Switch Zigbee".
2. Select the Zigbee gateway that has been paired before.



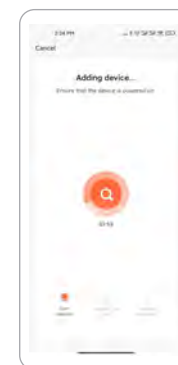
1. Connect the product to the power source, the upper end to the power source, and the lower end to the load.
2. After turning on the power, press the setting button once, and the setting indicator will light up purple.



1. Immediately after the previous step, after the setting indicator lights up, press and hold the pairing button for 2 seconds; then release. After a few seconds, the pairing light will start to flash quickly.
2. At this time, go back to the Tuya Smart APP, follow the prompts to confirm that the indicator light is flashing quickly, and click Next step.

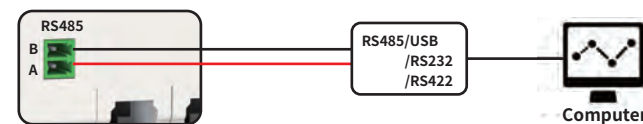


1. Follow the prompts to add devices and wait for the progress.
2. The addition is successful and complete.



RS485 communication introduction

- ◆ The product supports RS485 communication interface to communicate with the host computer;
- ◆ Users need to equip themselves with auxiliary equipment such as host computer, serial line, converter, driver, etc.;
- ◆ During installation and construction, please proceed with the electrical circuit power off, and correctly wire according to RS485 corresponding A/B port to ensure safety and correctness;



Set button

- ◆ The product is equipped with a "setting" button, which is used for APP pairing operation and RS485 communication setting.
- ◆ When you press the setting button once, the setting indicator on the product will turn purple. At this time, the product enters the RS485 setting mode, and the product address, protection threshold setting and other parameters can be modified through RS485 communication. Press the setting button again, the product will exit the RS485 setting state and enter the normal working mode, and the setting indicator will also turn blue or red;
- ◆ When you press the setting button once, after the customer sets the parameters of RS485, if you do not operate the setting button to exit, the product will automatically exit the setting mode after 15 minutes and return to the normal working mode.

Pair button

- ◆ The product is equipped with a pairing button, which is used when pairing in the normal mode of the mobile APP;
- ◆ When pairing is required, when the product is normally powered on, press the setting button once, wait for the setting purple light to turn on, press and hold the pairing button for 2 seconds, and then release it. The pairing light will start to flash quickly after a few seconds. At this time, the device has entered the pairing mode, you can open the APP to pair according to the pairing mode.

Set light

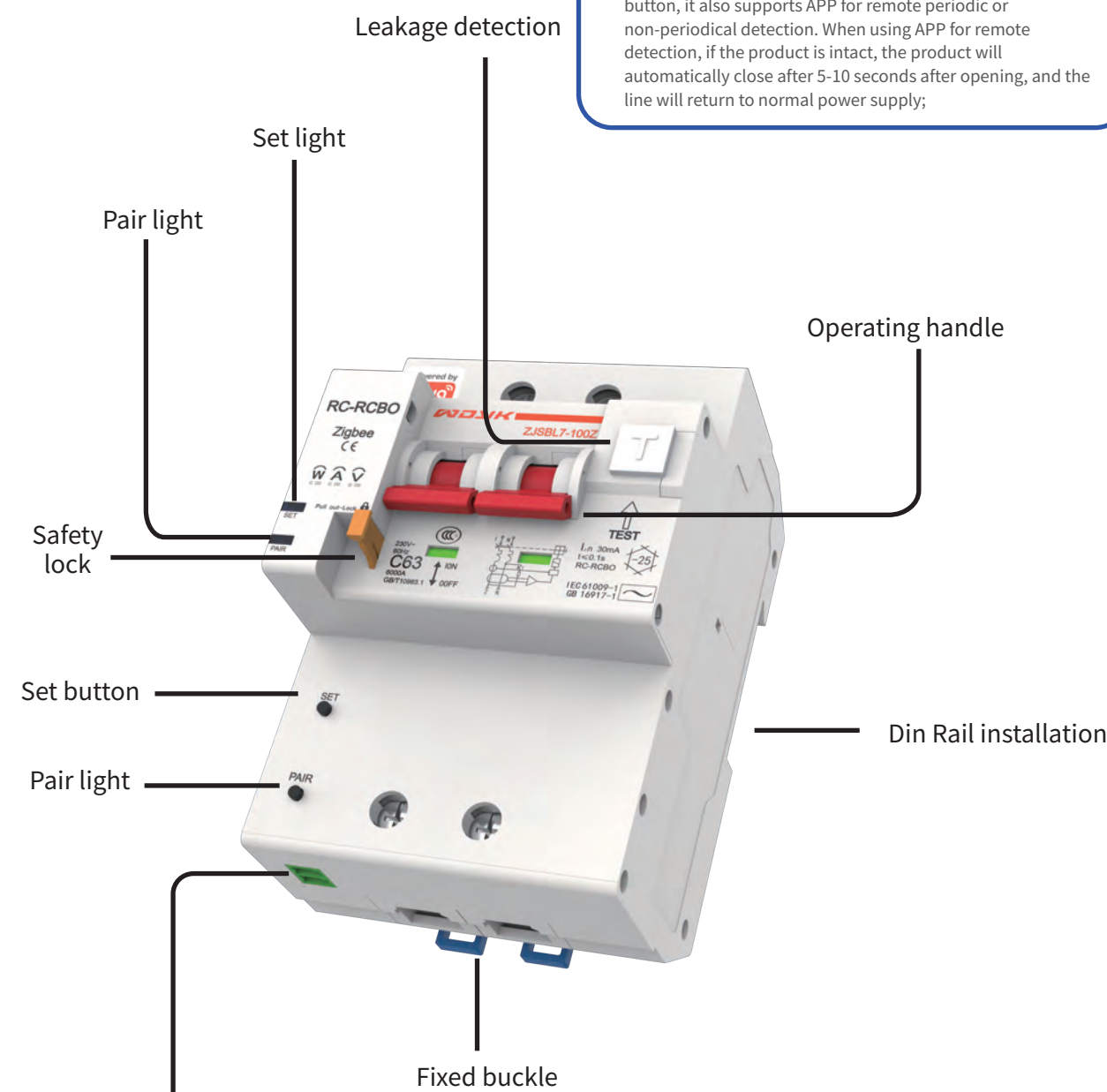
- ◆ The product is equipped with a "setting" light, which will light up normally after the power is on, indicating that there is power supply;
- ◆ When the product is in the open position, the light is set to blue. When the product is in the closing position, set the light to red;
- ◆ When the setting button on the circuit breaker is pressed once, the indicator light will turn purple. Press again to restore to the original state;

Pairing light

- ◆ There is a matching light on the product, and the flashing mode of the light indicates the status of the product;
- ◆ When the display is always on, it means that the pairing is working normally and it is in networking work;
- ◆ When the display shows uniform fast flashing (0.5 seconds/flash once), it means that the product is in normal pairing mode;

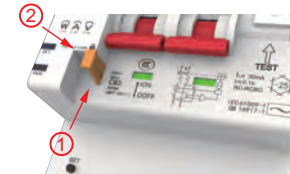
Leakage detection

- ◆ The product has a leakage detection button, which is used to periodically check the reliability of the leakage (residual current) device, and it is required to be pressed once a month;
- ◆ When the product is in the closed state, the product will open instantly when the detection button is operated, indicating that the leakage protection module protection is effective. If you want to restore the power supply, you need to manually close the switch manually, open the mobile APP, and enter the setting interface to unlock the residual current;
- ◆ While the product supports manual operation of the detection button, it also supports APP for remote periodic or non-periodical detection. When using APP for remote detection, if the product is intact, the product will automatically close after 5-10 seconds after opening, and the line will return to normal power supply;



Mechanical lock

- ◆ The product has an anti-mislocking mechanical lock, and under the original position, the opening and closing operations can be controlled under normal control;
- ◆ When the anti-mislocking mechanism is in the pull-out position, the circuit breaker will remain in the open position, and the circuit breaker cannot be closed in this state;
- ◆ If the anti-mislocking mechanism needs to be reset to the original position, please follow the steps in the figure;
- ◆ If the mechanical safety lock is not pulled out, you will be responsible for the consequences of the line maintenance operation.



Original position

Lock position

Reset operation

ZJSBL7-100Z Series/Zigbee RC-RCBO

Tuya Zigbee metering IOT leakage circuit breaker instruction manual

Model meaning

- ZJS B L 7-- 100Z/ Zigbee
- ① ZJS: Enterprise code;
 - ② B: Miniature circuit breaker;
 - ③ L: Leakage protection;
 - ④ 7: Design serial number;
 - ⑤ 100: Frame rated current;
 - ⑥ Z: With functions such as automatic opening and closing;
 - ⑦ Support Tuya Zigbee communication

Use range

The ZJSBL7-100Z series Tuya metering has the characteristics of small and compact size, long life, modularization, high breaking, and intelligent control. Applicable to AC 50Hz/60Hz, rated voltage 230V/400V, rated current to 100A lines, for connecting, breaking, timing, delaying and distributing electric energy and carrying rated current; and can occur in lines and electrical equipment in the case of overload and short circuit, it can reliably protect the circuit and electrical equipment, and it can also be used for infrequent starting of the motor and the protection of overload and short circuit.

Installation matters

- ◆ When operating and installing, be sure to carry out the power off to ensure personal safety;
- ◆ This circuit breaker is for upper wire entry and lower wire exit. Lower wire entry is not supported. Please wire it correctly. Please read the front of this manual for the wiring diagram.
- ◆ Wire in strict accordance with the requirements of the wiring diagram, and the position of the neutral wire and the live wire cannot be exchanged, otherwise it will cause failure to work or damage the product. Especially for 1P and 3P products, the neutral wire must be connected to the corresponding position, as shown in the wiring diagram on the front of this manual;
- ◆ The product adopts the internal power supply method, please ensure that the input terminal voltage is stable and reliable, and the first power-on should wait for more than 5s, and then perform the pairing operation;
- ◆ Before the product is used, the first pairing operation is required. After the pairing is completed, there is no need to re-pair the operation during use;
- ◆ If the line is suddenly cut off during normal use, the product will maintain the original opening and closing state, and the remote control will go offline. For subsequent calls, wait for a few seconds and the product will automatically re-online without re-pairing;
- ◆ The product should be installed in an environment with protective measures such as waterproof, moisture-proof, sun-proof, and dust-proof, such as indoors, waterproof distribution boxes, etc.;
- ◆ In addition to meeting the temperature range required by the national standard of -5°C~+40°C, it can also operate reliably within the extreme ambient temperature of -25°C~+65°C;
- ◆ While this product supports mobile APP control, it also supports RS485 communication;

Maintenance

- ◆ Check whether the screws are loose or not tight, and reinstall and tighten them in time;
- ◆ Check the product surface for dust and insulation damage, if found, clean or replace it in time;
- ◆ The operating characteristics of the circuit breaker are set by the manufacturer, and it is not allowed to disassemble and adjust at will to avoid damage to the product or cause malfunction;
- ◆ After the user purchases, he must read the instructions completely at the first time. If there is any situation that cannot satisfy the customer's use or the safe environment of use, please stop using it immediately and contact the manufacturer for return and exchange processing;

Pair Zigbee gateway

- ◆ Connect the Zigbee gateway to the power supply correctly → connect the Zigbee gateway to the 2.4GHz band router through a network cable → confirm that the phone has been connected to the local WIFI router (the same WIFI is connected to the Zigbee network) → download the mobile APP Tuya Smart → register an account and log in → click "+" to add a device → select "Gateway Central Control" under "Manually add" → select wired gateway Zigbee (if the configured hardware is a wireless gateway, select wireless gateway Zigbee) → confirm that the indicator light is always on, next step → wait Discover the connected device → discover the device, select the device to be added → wait for the device to be added → add successfully → complete.

Problem handling

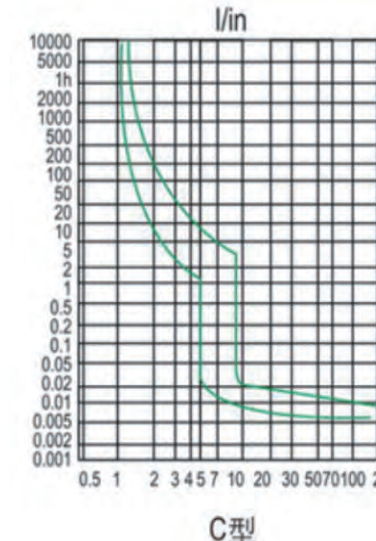
- ◆ **The front indicator light does not light up**
If the setting light is not on, check whether it is the lower incoming line, this product only supports the upper incoming line;
If the setting light is off, check whether the voltage at the power supply terminal is correct;
If the setting light is not on, check whether the neutral wire is connected to the neutral wire terminal of the power terminal as required, and the grounding wire is not allowed;
If the setting light does not light up, cut off the power supply at the inlet end of the circuit breaker, re-energize it, and try to see if the indicator light will light up;
If the pairing light is not on, you can operate the setting button and press for 1 second. At this time, the setting indicator will turn purple, then press the pairing button for 2 seconds and release it; after waiting a few seconds, see if the pairing light is back to normal;
- ◆ **Unsuccessful pairing**
Check the pairing indicator, whether it has entered the fast flashing mode;
Check whether the Zigbee gateway has been paired in advance
Check whether there are multiple Zigbee gateways in the environment and whether the paired gateways are wrong
Check whether the mobile phone is connected to the Wi-Fi network, and make sure that the mobile phone, the smart gateway, and the product are in the same Wi-Fi network.
- ◆ **Offline processing**
Check if the Zigbee gateway is working properly
Check whether the mobile phone is connected to the external network normally
If there are no exceptions, log out of the APP and try to log in again
- ◆ **The product cannot be closed remotely**
Check if the product is offline;
Check whether the mechanical lock of the product is pulled up, and the mechanical lock must be reset after the circuit is overhauled before closing;
Check whether the child lock function is turned on in the APP setting interface, and the switch can be closed only after the child lock function is released;
- ◆ **How to set RS485**
Connect the RS485 port of the device and the host computer → power on the product → press the setting button once with a tool (or paperclip) → the setting light will turn purple at this time → the address information of the device can be modified by the test software or user data frame at this time Threshold setting value, etc.→After the setting is modified, press the setting button once with the tool→The device returns to the normal working state;
- ◆ **How to unbind the device**
Enter the mobile phone Tuya smart APP → click the corresponding device button to enter the large operation interface → click the button in the upper right corner to enter the device information, pull the menu to the bottom → click remove device → unbind and clear data;

Safety warning

- ◆ It is forbidden to use this product to carry out illegal and criminal activities. If any illegal or criminal activity is caused, all legal responsibilities shall be borne by the user;
- ◆ It is forbidden to give mobile phones and remote control equipment to children and unrelated persons to play and operate, so as to avoid personal and property losses caused by misoperation;
It is forbidden to use the equipment in sports equipment such as automobiles to avoid accidental traffic accidents caused by vibration and misoperation;
- ◆ It is forbidden to use this product for maintenance and isolation, so as to avoid personal injury or death caused by non-related personnel misoperation of the remote control device during maintenance;
When the circuit breaker protection trips, it is forbidden to carry out remote closing operation without checking the circuit and troubleshooting. Blindly closing operation will result in personal injury or property damage;
- ◆ Taking into account the signal channel problems of routers and gateways, it is prohibited to use this product in important facilities such as fire control, boiler equipment, elevator equipment, medical equipment, and emergency equipment. In order to avoid accidental interruption or blockage of the network channel, the equipment loses connection and control, resulting in personal and property losses;
- ◆ When using the extended functions of this product, such as delay, timed loop and other functions, the time will have a certain error, please pay attention when using it. The hardware warranty of this product is 8 months, and the software is a third-party cloud platform. The user evaluates and bears the risk of use by himself. The company promises to return and exchange the product for seven days without reason.
- ◆ If the use and construction are not carried out in accordance with the above terms, the user shall bear all consequences and legal responsibilities;

Technical parameters

Meet the standards: GB/T 16917.1, CQC 1149, GB/T 16917.22
Rated voltage: AC 230V (1P, 2P) / AC 400V (3P, 4P)
Rated frequency: 50Hz/60Hz
Number of poles: with residual current protection 2P, 4P; without residual current protection 1P, 2P, 3, 4P;
Pollution degree: Level 2
Protection level: IP20
Installation category: II, III
Specified operating temperature: -25°C~+65°C
Frame rated current: 100A
Rated current: 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A
Instantaneous tripping form: C type (conventional), D type (customized)
Rated short-circuit breaking capacity: 3kA
Rated impulse withstand voltage: 3kV
Mechanical life: more than 10,000 times
Electrical life: more than 6000 times
EMC performance: in line with GB/T 18449
Surge withstand: Comply with GB/T 17626.5, voltage 4.0kV
Salt spray tolerance: Comply with GB/T 2423.17 48h
Dust tolerance: Comply with GB 4208 8h



Function introduction

- ◆ Overload protection, short circuit protection, leakage protection, remote closing and opening functions
- ◆ Voltage display, current display, active power display, electricity display, equipment temperature display, residual current display, residual power display, operation record display
- ◆ Reverse power statistics, total power statistics
- ◆ Voltage threshold alarm/trip
- ◆ Over current threshold alarm/trip
- ◆ Residual current threshold alarm/trip
- ◆ Device temperature threshold alarm/trip
- ◆ Mechanical lock, mechanical lock feedback, APP child lock
- ◆ Residual current protection remote test, residual current protection periodic test
- ◆ Clear historical power, simulate recharge of power, trip on arrears
- ◆ Timer switch setting function, countdown switch function, sharing authority function
- ◆ Support voice control, support some third-party intelligent voice access control, support some third-party control system control, support SMS notification (paid), support phone notification (paid)

Installation size

