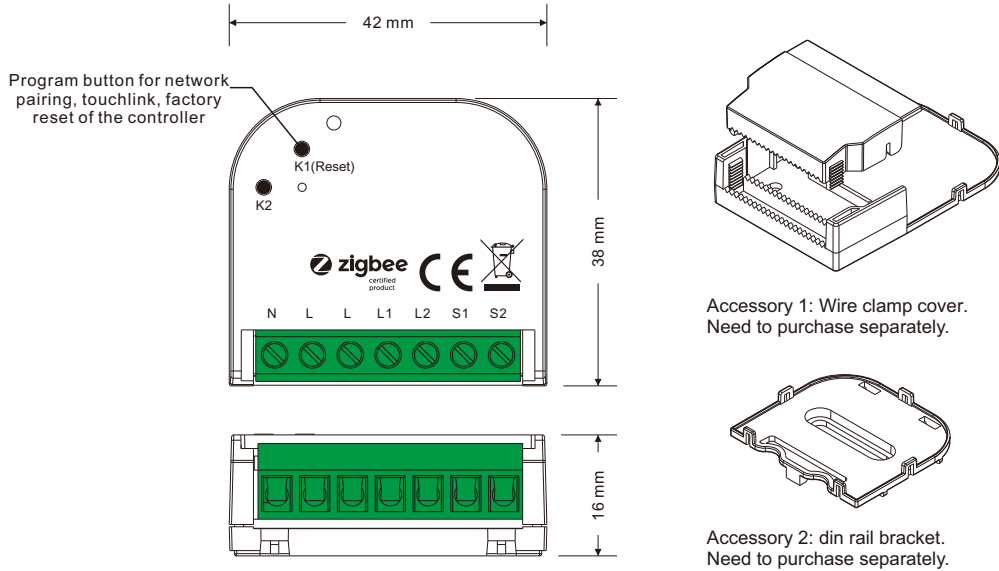


ZigBee Smart Curtain Controller



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Max. Voltage	Max. Load Current	Overcurrent Protection	Standby Power Consumption	Size(LxWxH)
EU: 230VAC/50Hz US: 110VAC/60Hz	Inductive load: 2A Capacitive load: 2A Resistive load: 4A	Max. 5A	<=0.5W	42x38x16mm

- Zigbee curtain motor controller based on latest ZigBee 3.0 protocol
- Full support for various curtain types: roller blinds, shutter blinds, drapes, etc.
- Controlled by smart app or directly by Zigbee remote
- Local control with external switches even if not added to a Zigbee network
- Accurate control, supports both ON/OFF and level control
- ZigBee end device that supports Touchlink commissioning
- Supports self-forming Zigbee network without coordinator
- Supports find and bind mode to bind a ZigBee remote
- Supports Zigbee green power feature and can bind max. 20 Zigbee green power remotes
- Compatible with universal ZigBee gateway products
- Waterproof grade: IP20

Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

Overcurrent Alarm

When an overcurrent alarm is triggered, the LED flashes slowly (0.5s), and the device reports to the gateway every minute. To restore normal operation, the device needs to be restarted, or the gateway cancels the alarm.

Overheat Protection

If the power board gets too hot (around 95°C), the device will stop output and send a warning to the gateway (see private attribute PCB Temperature Too High (0x0002) under the Basic Cluster for details). The device will start working again only after it's powered back on.

Operation

1. Buttons K1, K2, and LED indicator

The device has two buttons: K1 and K2, and one LED indicator.

Key Action	Key No.	Description
Short press x 1	K1	Open(move up) the curtain for 2s. LED stays on during this process.
	K2	Close(move down) the curtain for 2s. LED stays on during this process.
Short press x 2	K1	Start/stop curtain calibration. LED stays on during this process.
Short press x 3	K1	Start deleting GP remote and start Find and Bind mode for 180s or stop. LED flashes 3 times quickly every 3s during this process. LED stays on for 3s if GP remote is deleted successfully.
Short press x 4	K1	Node 1: Enter Green Power remote learning mode and TouchLink mode for 180s or stop. LED flashes once quickly every 3s during this process. If paired to GP remote, LED stays on for 3s and the device exits GP pairing. If Touchlink succeeds, LED flashes for the identity time sent by the initiator.
	K2	Node 2: Enter Green Power remote learning mode and TouchLink mode for 180s or stop. LED flashes twice quickly every 3s during this process. If paired to GP remote, LED stays on for 3s and the device exits GP pairing. If Touchlink succeeds, LED flashes for the identity time sent by the initiator.
Short press x 5	K1	Enter network pairing mode for 180s. LED flashes quickly during this process. If added to a Zigbee network, LED stays on for 3s and the device exits pairing mode. Factory reset if the device has been added to a network.

2. External Switches S1, S2, and LED indicator

Switch Action	Switch	Description
Short press x 1	S1	Open(move up) the curtain or stop. LED stays on during this process.
	S2	Close(move down) the curtain or stop. LED stays on during this process.
Hold	S1	Open(move up) the curtain. LED stays on during this process.
	S2	Close(move down) the curtain. LED stays on during this process.
Release	S1	Stop the curtain.
	S2	Stop the curtain.

3. ZigBee Network Pairing

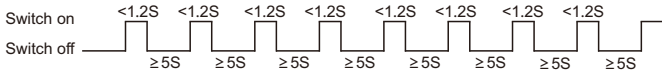
Method 1: If the device is not yet connected to a network, it will enter network pairing mode when powered on (180s timeout).

Method 2: Short press K1 five times (See 1. Buttons K1, K2, and LED indicator).

4. Factory Reset

Method 1: Short press K1 five times (See 1. Buttons K1, K2, and LED indicator).

Method 2: Reset the power of the device 8 times.



5. Touchlink to a Zigbee remote

Method 1: If the device has been connected to a network, it will enter Touchlink mode when powered on (180s timeout).

Method 2: Short press K1 or K2 four times (See 1. Buttons K1, K2, and LED indicator).

6. Learning to a Zigbee Green Power Remote

Short press K1 or K2 four times (See 1. Buttons K1, K2, and LED indicator).

7 Delete Learning to a Zigbee Green Power Remote

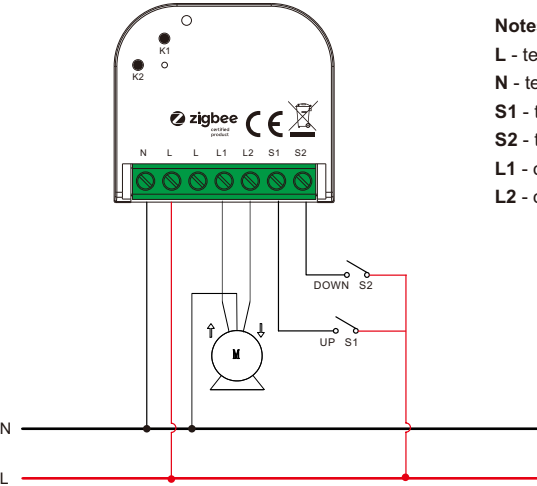
Short press K1 three times (See Buttons 1. K1, K2, and LED indicator).

8. Find and Bind Mode

Short press K1 three times (See Buttons 1. K1, K2, and LED indicator).

Note: The device and remote control should be added to the same network.

Wiring Diagram



Notes for the diagrams:
L - terminal for live lead
N - terminal for neutral lead
S1 - terminal for switch 1
S2 - terminal for switch 2
L1 - output terminal 1 of the controller (control curtains)
L2 - output terminal 2 of the controller (control curtains)

Zigbee Parameters

Zigbee application endpoints:

Endpoint	Profile	Application
0(0x00)	0x0000(ZDP)	ZigBee Device Object (ZDO)
1(0x01)	0x0104(HA)	DeviceID = 0x0202 (Window covering)
3(0x03)	0x0104(HA)	DeviceID = 0x0007(Combined interface: OTA, Electric Meter, Alarm)
242	0x0104(HA)	Green power, DeviceID = 0x0066(GP combo Babic)

Cluster supported:

Cluster	Description	Supported	Endpoint
0x0000	Basic	server	1,3
0x0003	Identify	server	1,3
0x0004	Groups	server	1
0x0005	Scenes	server	1
0x0006	On/off	server	1
0x0008	Level	server	1
0x0009	Alarm	server	3
0x0b04	Electrical Measurement	server	3
0x0102	Window covering	server	1
0x0702	Simple Meter	server	3
0x0019	OTA Upgrade	Client	3
0x1000	Touchlink	server	1
0x0021	Green Power	server	242
		Client	