ZigBee 2CH Smart Relay and Curtain Control Module

CEFC PRoHS Zigbee

Important: Read All Instructions Prior to Installation

Function introduction





Accessory 1: Wire clamp cover. Need to purchase separately.



Accessory 2: din rail bracket. Need to purchase separately.

Product Data

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

• 2-gang ZigBee in-wall switch based on latest ZigBee 3.0 protocol

- Device type can change between 2 channels relay and curtain controller by manual way or Azoula APP
- Enables to control ON/OFF of connected load
- ZigBee device with 2 endpoints which can be controlled separately
- ZigBee end device that supports Touchlink commissioning
- Supports zigbee green power and can bind max. 20 zigbee green power switches
- Can be controlled by universal single wire push switch, 2 channels can be controlled separately by 2 switches
- · Compatible with different push button types, such as momentary switches and rocker
- Active power and energy metering functionality
- Mini Size, Easy to be installed into a standard wall box
- Over load protection

Safety & Warnings

• DO NOT install with power applied to device.

• DO NOT expose the device to moisture.

Wiring Diagram

Notes for the diagrams:

L - terminal for live lead

 ${\bf N}$ - terminal for neutral lead

L1,L2 - output terminal of the dimmer (controlling connected light source)

S1, S2 - terminal for switch

Lighting Control Mode



Instructions of button and LED indicator

No.	Operation	Key Number	Description		
1 1	Short press once	К1	Curtain mode: L1 load turn on for 2s, LED turn on for 2s Lighting mode: L1 load switch on/off		
1.1		K2	Curtain mode: L2 load turn on for 2s, LED turn on for 2s Lighting mode: L2 load switch on/off		
1.2	Short press twice	К1	Curtain mode: Manually calibrate, LED turn on during this time		
1.3	Short press four times	К1	Enter Touchlink mode, LED indicator flash slowly. When sucessfully Touchlink, LED indicator will flash rapidly for 3s.		
1.4	Short press five times	К1	Factory reset and enter network paring mode, the state will last for 180s or until it had been added into a zigbee network. LED indicator flash rapidly during this time.		
1.5	Long press and hold for over 5s	K1, K2	Change device type between curtain control mode and lighting control mode. LED indicator flash twice slowly when change to curtain control mode, LED indicator flash four times slowly when change to lighting control mode. After the device type is changed, the device will be removed from network.		

Instructions of external switch S1,S2 and LED indicator

No.	Operation	Key Number	Description	
21	Short press once	S1	Curtain mode: Turn up/open curtain/stop Lighting mode: Switch on/off L1 load	
2.1		S2	Curtain mode: Turn down/close curtain/stop Lighting mode: Switch on/off L2 load	
2.2	Short press three times	S1 in 1.5s, then S2 in 1.5s	Factory reset and enter network paring mode, the state will last for 180s of until it had been added into a zigbee network. LED indicator flash rapidly during this time.	

23	Hold	S1	Curtain mode: Turn up/open curtain Lighting mode: Turn on L1 load
2.0		S2	Curtain mode: Turn down/close curtain Lighting mode: Turn on L2 load
24	Poloooo	S1	Curtain mode: Stop the curtain Lighting mode: Turn off L1 load
2.4	Release	S2	Curtain mode: Stop the curtain Lighting mode: Turn off L2 load

Over load protection

When under over load alarm state, the LED blinks slowly (0.5s each time) and reports to the gateway at an interval of 1 minute. The device will cut the output until it's restarted or cancellations the alarm

Zigbee network paring mode or factory reset

If the device had not been added into a network, the first time when power on, the device will enter network paring mode. The state will last for 180s or until it is added into a network.

The other way to set device into network pairing mode or factory reset: Method 1: Follow **Instructions of button and LED indicator** point 1.4 Method 2: Follow **Instructions of external switch S1,S2 and LED indicator** point 2.2

Touchlink to a zigbee remote

Step 1: Short press "K1" button 4 times to start Touchlink commissioning immediately, 180S timeout, repeat the

operation.

Step 2: Bring the remote or touch panel within 10cm of the lighting device.

Step 3: Set the remote or touch panel into Touchlink commissioning, please refer to corresponding remote or touch panel manual to learn how.

Step 4: There shall be indication on the remote for successful link and connected light will flash twice.

Note:

1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.

2) TouchLink after both added to a ZigBee network, each device can link with max. 30 remotes.

3) To control by both gateway and remote, add remote and device to network first then TouchLink.

4) After TouchLink, the device can be controlled by the linked remotes.

Learning to a Zigbee Green Power Remote

Step 1: Short press "K1" button 4 times to start Learning mode, 180 seconds timeout, repeat the operation.

Step 2: Set the green power remote into Learning mode, please refer to its manual.

Step 3: LED indicator will flash twice to indicate successful learning. Then the remote can control the device.



Delete Learning to a Zigbee Green Power Remote

Step 1: Short press "K1" button 3 times to start delete Learning mode, 180 seconds timeout, repeat the operation. Step 2: Set the paired green power remote into Learning

mode, please refer to its manual.

Step 3: LED indicator will flash 4 times to indicate successful deleting.

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ΟΤΑ

The device supports firmware updating through OTA, and will acquire new firmware from zigbee controller or hub every 10 minutes automatically.

Zigbee Parameter

Curtain Control Mode

Zigbee application endpoints

Endpoint	Profile	Application
0(0x00)	0x0000(ZDP)	ZigBee Device Object (ZDO)
1(0x01)	1) 0x0104(HA) DeviceID = 0x0202(Window covering)	
2(0x02)	0x0104(HA)	DeviceID = 0x0002(On/Off Output)
+3(0x03)	0x0104(HA)	DeviceID = 0x0007(Combined interface:OTA/Electric Meter/Alarm)
242	0x0104(HA)	Green power , DeviceID = 0x0066(GP combo Babic)

Support Cluster

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	0009 Alarm		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		242
		Client	

Lighting Control Mode

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1(0x01) 0x0104(HA) DeviceID = 0		DeviceID = 0x0002(On/Off Output)
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0x0005	Scenes	server	1
0x0006	On/off	server	1
0x0009	0009 Alarm		3
0x0b04	Electrical Measurement	server	3
0x0702	Simple Meter	server	3
0x0019	OTA Upgrade	Client	3
0x1000	x1000 Touchlink x0021 Green power		1
0x0021			242
		Client	