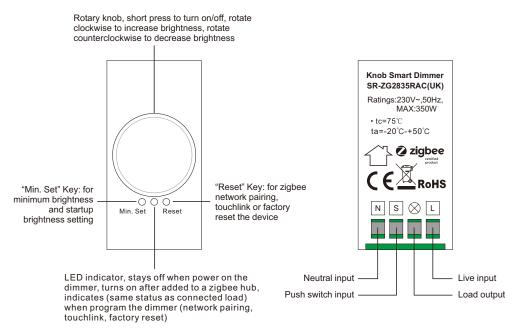
Push Compatible ZigBee Knob Smart Dimmer

💋 zigbee PUSH) (E FC #RoHS

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Input Voltage	Output Voltage	Output Current	Size(LxWxH)
230VAC	230VAC	1.5A max	25.0x50.0x20.0mm

Compatible Load Types						
Load Symbol	Load Type	Maximum Load	Remarks			
	Dimmable LED lamps	175W @ 230V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.			
- ¥ -	Dimmable LED drivers	175W @ 230V	Maximum permitted number of drivers is 250W divided by driver nameplate power rating.			
-\D	Incandescent lighting, HV Halogen lamps	350W @ 230V				
	Low voltage halogen lighting with electronic transformers	175W @ 230V				

ZigBee Clusters the device supports are as follows:

Input Clusters

09.ZG2835RACS.04736

- 0x0003: Identify • 0x0000: Basic • 0x0004: Groups 0x0005: Scenes 0x0006: On/off
- 0x0b04: Electrical Measurement 0x0b05: Diagnostics 0x0702: Simple Metering 0x0008: Level Control

Output Clusters

- 0x0019: OTA
- · ZigBee knob smart dimmer based on latest ZigBee 3.0 protocol
- 230VAC input and output voltage, can work under no neutral wiring and with neutral wiring, self-adaptive
- · Supports resistive loads, capacitive loads or inductive loads
- Enables to set minimum brightness and startup brightness
- 1 channel output, up to 350W
- · Both leading edge version and trailing edge versions are available for choosing, preset by factory setting
- Enables to control ON/OFF and light intensity of connected light source
- · ZigBee end device that supports Touchlink commissioning
- Can be controlled by zigbee gateway, zigbee remote and local rotary knob
- Can directly pair to a compatible ZigBee remote via Touchlink without coordinator
- Supports self-forming zigbee network without coordinator and add other devices to the network
- Supports find and bind mode to bind a ZigBee remote
- Supports zigbee green power and can bind max. 20 zigbee green power remotes
- · Compatible with universal ZigBee gateway products
- With push switch input, can be controlled by universal AC push switches
- Standard size, can be compatible with existing EU standard frames, and installed into standard size wall box
- Radio Frequency : 2.4GHz
- Waterproof grade: IP20

Main Features:

- · Can operate under two-wire connection with no neutral lead or three-wire connection with neutral lead
- Advanced microprocessor control
- · Implemented algorithm of smart light source detection
- Active power and energy metering functionality
- Soft start function
- · Innovative minimum dimming level and startup brightness setting functions
- · The Bypass is an extension unit

As a dimmer it operates under the following loads:

- Conventional incandescent and HV halogen light sources
- ELV halogen lamps and dimmable LED bulbs (with electronic transformers)
- MLV halogen lamps (with ferromagnetic transformers)
- · Dimmable LED bulbs
- Dimmable compact fluorescent CFL tube lamps

• Supported dimmable light sources (power factor > 0.5) with minimal power of 3VA using the Bypass (depending on the type of load)

Trailing edge or leading edge dimming mode can be preset by factory setting to control following types of loads:

"Trailing edge" for resistive loads

- "Trailing edge" for capacitive loads
- "Leading edge" for inductive loads

Note: factory default version is trailing edge.

Safety & Warnings

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

Operation

1.Do wiring according to connection diagram correctly.

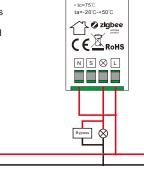
2. This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.

3. Zigbee Network Pairing through Coordinator or Hub (Added to a Zigbee Network)

Step 1: Remove the device from previous zigbee network if it has already been added to, otherwise pairing will fail. Please refer to the part "Factory Reset Manually".

Step 2: From your ZigBee Controller or hub interface, choose to add lighting device and enter Pairing mode as instructed by the controller.

Step 4: Connected light will blink 5 times and then stay solid on, then the device will appear in your controller's menu and can be controlled through controller or hub interface.



Knob Smart Dimmer SR-ZG2835RAC(UK

Ratings:230V~,50Hz, MAX:350W

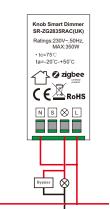
> Step 3: Reset power of the device from master breaker to set it into network pairing mode (connected light flashes twice slowly). 15 seconds timeout. repeat this step.

6. Factory Reset Manually

from the network.

Note: 1) If the device is already at factory default setting, there is no indication when factory reset again . 2) All configuration parameters will be reset after the device is reset or removed

Step 2: Connected light will blink 3 times to indicate successful reset.

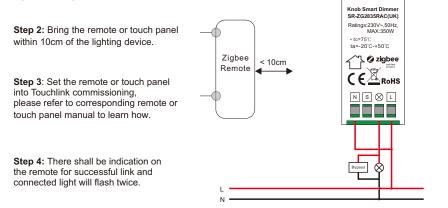


Step 1: Short press "Reset." key for 5 times continuously or reset power of the device from master breaker for 5 times continuously if the "reset" key is not accessible.

4. TouchLink to a Zigbee Remote

Step 1: Method 1: Short press "Reset" button 4 times (or reset power of the device 4 times from master breaker) to start Touchlink commissioning immediately under any circumstances, 180S timeout, repeat this step.

Method 2: Reset power of the device from master breaker. Touchlink commissioning will start after 15S if it's not added to a zigbee network. 165S timeout. Or start immediately if it's already added to a network. 180S timeout. Once timeout. repeat this step.



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) Control with 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.

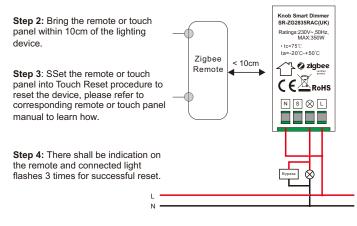
5. Removed from a Zigbee Network through Coordinator or Hub Interface



From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

7. Factory Reset through a Zigbee Remote (Touch Reset)

Note: Make sure the device already added to a network, the remote added to the same one or not added to any network.



Step 1: Short press "reset" button 4 times (Or reset power of the device from master breaker) to start TouchLink Commissioning, 180 seconds timeout, repeat this step.

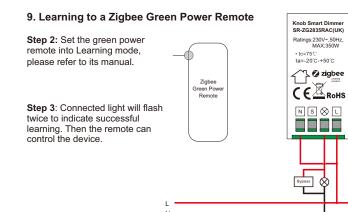
8. Find and Bind Mode

Note: Make sure the device and remote already added to the same zigbee network.

Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable it • tc=75°C to find and bind initiator, please Zigbee refer to corresponding remote or Remote touch panel manual. Step 3: There shall be indication on the remote or touch panel that it bind the device successfully and can control it then.

Knob Smart Dimmer SR-7G2835RAC(UK) Ratings:230V~,50Hz, MAX:350W ta=-20°C-+50°C 🖉 zigbee N S 🛇 L

Step 1: Short press "Reset." button 3 times (Or reset power of the device (initiator node) 3 times from master breaker) to start Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat this step.



Step 1: Short press "Reset." button 4 times (Or reset power of the device 4 times from master breaker) to start Learning mode (connected light flashes twice). 180 seconds timeout, repeat this step.

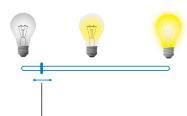
Note: 1) Each added device can link and be controlled by max. 30 added remotes. 2) Each added remote can link and control max. 30 added devices.

12. OTA

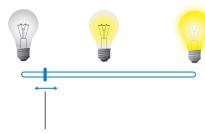
The device supports firmware updating through OTA, and will acquire new firmware from zigbee controller or hub every 10 minutes automatically.

13. Minimum Brightness Setting

Set Minimum Brightness



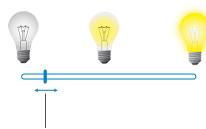
Step 1: adjust the brightness of connected load to a desired level between 1%-50%.



Step 1: adjust the brightness of connected load to 100%.

14. Startup Brightness Setting Set Startup Brightness

the brightness before turned off.





Step 2: double click "Min. set" key to set the brightness adjusted in step 1 as startup brightness, then the load will first go to startup brightness when turned on every time, then drop down to the

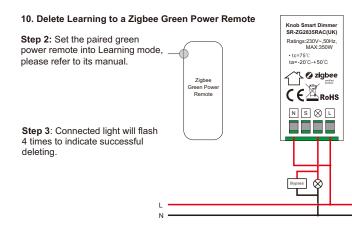
to a desired level between 1%-50%. brightness before last time turned off. Note: startup brightness setting function is to avoid the phenomenon that some dimmable LED drivers can not be turned on after turned off at a very low brightness level. Once setting a startup brightness, if the startup brightness is higher than the brightness before turned off, the driver will first go to the startup brightness after turned on then drop down to the

level before turned off. If the startup brightness is lower than the brightness before tured off, the driver will directly go to

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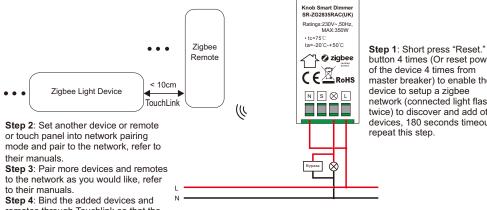
Min Set

Note: Each device can learn to max. 20 zigbee green power remotes.



Step 1: Short press "Reset." button 3 times (Or reset power of the device 3 times from master breaker) to start delete Learning mode (connected light flashes slowly), 180 seconds timeout, repeat this step.

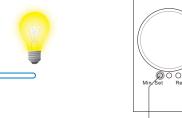
11. Setup a Zigbee Network & Add Other Devices to the Network (No Coordinator Required)



remotes through Touchlink so that the devices can be controlled by the remotes, refer to their manuals.

button 4 times (Or reset power of the device 4 times from master breaker) to enable the device to setup a zigbee network (connected light flashes twice) to discover and add other devices, 180 seconds timeout, repeat this step.

Delete Minimum Brightness



Step 2: press and hold down "Min. set" key for 3 seconds until connected load blinks to delete the previously set minimum brightness.





Min Set Res



Step 1: adjust the brightness of connected load to 0%.

15.Controlled by a push switch:

Step 2: double click "Min. set" key to delete the previously set startup brightness.

Min Set Res

Once connected with a push switch, click the push switch to switch ON/OFF, press and hold down it to increase/decrease light intensity between 1% to 100%.

Wiring Diagram

Notes for the diagrams:

- L terminal for live lead
- \underline{N} terminal for neutral lead
- \otimes output terminal of the dimmer (controlling connected light source)
- S terminal for push switch

Compatible load types and recommended values of power for supported loads:

Supported load types		230VAC	
Ŷ	Resistive loads Conventional incandescent and halogen light sources	20-350W @ 230V	
₽ ₽ ₽ ₽	Capacitive loads Fluorescent tube lamp (compact / with electronic ballast), electronic transformer, LED	Using Bypass: 3-175W @ 230V	No Bypass Used: 20-175W @ 230V
¢	Inductive loads Ferromagnetic transformers	20-175W @ 230V	

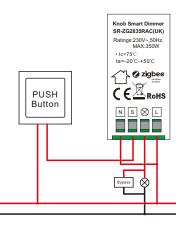
This phase dimmer adopts leading edge dimming (forward phase control) or trailing edge dimming (reverse phase control), two versions are available for choosing, factory default version is trailing edge. Please make sure the connected loads support the control type you choose. Please refer to the user manual of the load or consult the supplier of the load.

PUSH Button

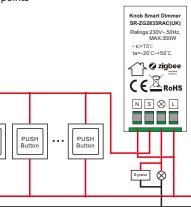
N

(1) 2-Wire Connection With No Neutral Lead

Single push switch wiring



Multiple push switches wiring for multiple control points

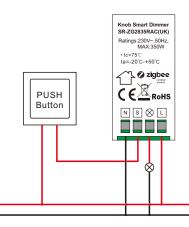


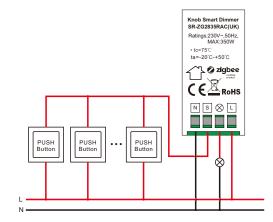
The Bypass is a device designed to work with the knob smart dimmer. It should be used in case of connecting LED bulbs or energy saving compact fluorescent lamps. The Bypass prevents flickering of the LED lights and glowing of the turned off compact fluorescent lamps. In the case of 2-wire connection, the Bypass allows to reduce minimum power of load required by the dimmer for correct operation. The Bypass provides powering of the dimmer in case of controlling the low loads of minimum power down to 3W (for cosp>0.5).

(2) 3-Wire Connection With Neutral Lead

Single push switch wiring

Multiple push switches wiring for multiple control points





Product Dimensions

