



GRC111 smart dimming controller can be controlled with EU1254 wireless kinetic switch, no battery is needed during use. It has WIFI module inside, so can be controlled remotely with mobile APP, and also can use voice control with Amazon Alexa.



Controller Model: ERC111
Kinetic Switch: EU1254
Controller Voltage: AC110V 50/60Hz
Rated Load: 300W
Wireless Communication: WiFi 2.4GHz & RF 902MHz
Control distance: 50m(Outdoor) 30m (Indoor)
Sensitivity: -110dBm
Storage Capacity: Maximum 10 switch keys can be paired
Dimming controller dimensions: L44*W41*H107mm
Kinetic switch dimensions: L33*W16*H65mm (Excluding base plate)
Switch base plate dimensions: L56*W41*H17mm
Temperature: -15°C ~ +45°C

Controller



1. Mount the base plate on the wire box or wall

2. Adhere the wireless kinetic switch to the base plate

Kinetic wireless switch support two modes to control the dimming controller : Common mode and Special mode. Different mode has different pairing method.

Pressing **Up key** is used to increase the current value, the **Down key** is used to decrease the current value, one kinetic switch only can control one dimming controller, short press Up key to turn on light, short press Down key to turn off light, long press Up key to turn on brighten light, long press Down key to dim light:

Use special pairing method (will introduce method in "Special Pairing Method" section) to achieve special mode. In special mode, one CU1254A kinetic switch can control two dimming controller: Up key of kinetic control one controller, and Down key control another controller.

Example:

Control dimming controller A:
 1. Turn on/off light
 2. Brightness Dim light

Control dimming controller B:
 1. Turn on/off light
 2. Brightness Dim light

control dimming chandelier. A to turn it on or turn off the light, and long press Up key to adjust light brightness circularly. Use the same method for Down key of EU1254 kinetic switch to control dimming control B.



Multi-control wire (Maximum 10 switch legs, one of one conductor)

One switched output (One wire being one conductor multiple conductors, not needed)

1. Power on the dimming controller, and then keep pressing the

- Common Pairing Method

Common Pairing Method

Pairing Key

1. Long press pairing key 5 seconds, indicator light will flash slowly

2. click any key of numeric watch once

1. Power on the dimming controller, and then keep pressing the pairing key about 6 seconds, when the indicator light flash slowly (flash 1 time per second), then release the key, and the controller is ready for pairing. You can also click the "pairing" button in the app to make device enter pairing mode.
2. At this time, press appointed key of the kinetic energy switch four times (within 1 seconds) according to your requirement. If the indicator light is off, it means that pairing is successful.

- ### Special Pairing Method
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1. Long press pairing key 6 seconds, indicator light will flash slowly
 2. According to your requirement, click appropriate key (such as On/Off/Call/Message/Touch) four times within 1 second.
(If want to use Touching control, please refer to special key device method.)

2. After clearing the pairing, the kinetic switch will no longer control the controller, but can be paired again.

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- Connect WiFi Method
- 1 Use mobile phone to download the app and follow the prompts to

quickly (twice per second) if the indicator light is not flashing quickly, press and hold pairing key about 10 seconds, the indicator light will flash from slowly to stay on, release pairing key when the indicator light stay on. After 2 seconds the indicator light will flash quickly (twice per second), which means that controller is ready for WiFi connection.

- Confirm the indicator light flash speed.
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- Pairing the three devices, as close as possible

1. In the Kinetic Switch APP, rename the controller devices, such as bedroom lights.
2. Add the SmartLife skill in Alexa APP, and login in by using the account and password of the Kinetic Switch APP.
3. Discover the device in the smart application selection in the Alexa APP.
4. Now you can control controller with voice.

- ### Instruction of Dimming Function
1. ERC111 controller contains MOSFET component. Support Reverse Phase dimming, and also support Forward Phase dimming. So can use lamps such as Incandescent lamp, tungsten lamp and mostly LED lamp. If flickering occurs during dimming, replace the compatible lamp. Segmented dimmers and lamps with dimmers are not supported.
 2. This controller only can be paired with EU1253 kinetic switch. After pairing, long press Up key of kinetic switch to brighten light, and it will stop to brighten when brightness reach maximum brightness. Long press Down key of kinetic switch to dim light, and it will stop to

1. WiFi connection failed

Troubleshooting method: Please confirm the indicator light is blink rapidly (twice per second); if not blink rapidly, please set the indicator light to blink rapidly according to connect WiFi method. Let router, controller and mobile phone as close as possible (within 5 meters)

2. The controller is off line in APP

4. When the load is LED lamp, the lamp will flash during dimming.
- Troubleshooting method: Please check the parameters of LED lamp, and confirm that it can support TRIAC dimming or MOS dimming. If it does not support, please replace the suitable lamp.

**CERTIFICATE
INSPECTED**

Caution:

This device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standard(s). 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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

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.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.