

# ENER-J<sup>®</sup>

*Smart Home Living*

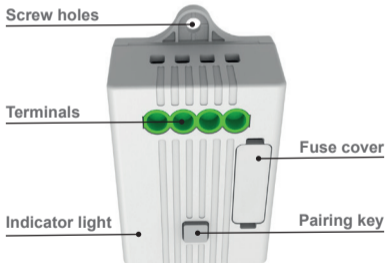


## **Dimmable + Wi-Fi Receiver Controller**

## **Installation Guide**

## 1. Introduction

WS1018 dimming receiver controller can pair with Kinetic Switch to control light ON/OFF/Dimming. The WS1018 has Wi-Fi module, so can use mobile APP to remote control, and Amazon Alexa, Google Home, Google Assistant voice control.



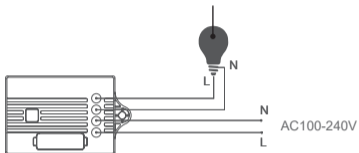
## 2. Parameters

<b>Product model</b>	ERC301 (WS1033) ERC310(WS1018)
<b>Product SKU</b>	WS1033 (Only RF Dimmable), WS1018 (WiFi+RF Dimmable)
<b>Product name</b>	Single dimming controller
<b>Working temperature</b>	-20°C~+55°C
<b>Control distance</b>	160m (outdoor) 30m (indoor)
<b>Sensitivity</b>	-110dBm
<b>Voltage range</b>	100-240V 50/60Hz
<b>Rated power</b>	100W
<b>Dimensions</b>	L70*W44*H29mm
<b>Wireless communication</b>	Wi-Fi 2.4G & RF 433Mhz
<b>Storage capacity</b>	Maximum 10 switch keys can be paired
<b>Executive standard</b>	EN61058-1; 2002+A2; 2008; GB 14536.1-2008

**Note:** The effective distance is measured by Laboratory. In the actual use, it will vary due to environment changes.

### 3. Connection and Installtion

Tungsten lamp, incandescent lamp or LED lamp which support TRIAC dimming



Connection method



#### Introduction method 1:

Paste with double-sided adhesive tape on clean surface.

#### Introduction method 2:

Fix into expansion screw in the wall.

#### 4. Instruction of Dimming Function

1. WS1018 controller uses TRIAC components. Supports incandescent lamp, tungsten lamp and mostly LED lamp which supports TRIAC dimming. If flickering occurs during dimming, replace the compatible lamp. Segmented dimmers and lamps with dimmers are not supported.
2. This controller only can pair with push button switch: after pairing is successful, long press the push button switch can adjust lamp brightness circularly. Release the switch when brightness reach your desired percentage. Also can use mobile APP or Alexa, Google Home, Google assistant voice control lamp brightness.
3. This controller has a brightness memory function. When turn on the lamp again, it maintains the last brightness of lamp. If paired with multiple switches, this controller can memorize the brightness of each switch.
4. If you press switch key for long time, the controller dims from the darkest to brightest for

2 cycles, and will stop dimming when reaching maximum brightness after 2 cycles.

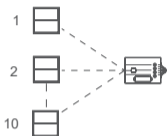
5. Long press to adjust the lamp brightness, if the interval time between 2 times of long press is less than 1 second, the dimming direction (dim or brighten) will be reversed.



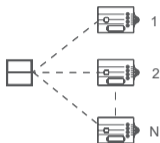
1. Long press dimming, if this time is brighten direction, release and long press again within 1 second, it will change to dim direction.
2. Long press dimming, if this time is dim direction, release and long press again within 1 second, it will change to brighten direction.

## 5. Combination Method

This controller can pair with kinetic energy switch freely, can form two modes: one control multi, and multi control one.



Multi control one (Maximum 10 switch keys control one controller)



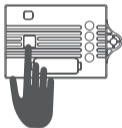
One control multi (One switch key can control multiple controllers, no limits)

## 6. Ordinary Pairing Method

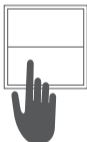
1. Connect the controller's input to the power supply, press the controller "pairing key" around 3 seconds, release when indicator light flash slowly (flash 1 time per second).
2. Press the selected kinetic energy switch once (Do not press several times continuously), then indicator light is off, means the pairing is successful.

3. If need to pair with multiple switches, repeat the above procedure. Please note one controller can be paired with maximum 10 switches.
4. After th pairing is successful, so can press the kinetic switch to control controller. In the case of no connected loads, you can know controller status by the on/off of indicator light.

Ordinary pairing method



1. Press around 3 seconds, and the **indicator light flashes slowly.**



2. Press the kinetic switch once

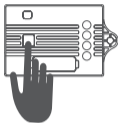


## 7. Directional Pairing (not common use)

In order to meet the user's usage habit of switch and to ensure the synchronization of one control multi mode, so we define the directional pairing mode. Directional pairing only support 2 keys or 6 keys push button switch.

1. Connect the controller's input to the power supply, press the controller "pairing key" for around 3 seconds, release when indicator light flash slowly (flash 1 time per second).
2. Press push button switch left or right key twice (within 0.5 second), then the indicator light goes off, which means the pairing is successful.
3. After pairing is successful, left and right key of push button switch as a group, press the left key is OFF and the right key is ON, long press the left key is dimming and right key is brighten.

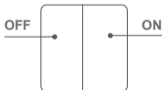
Directional pairing of push button  
(only supports 2 keys or 6 keys)



1. Press around 3 seconds, and the **indicator light flashes slowly.**



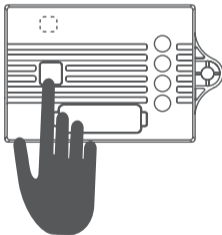
2. Quick press any key twice (within 0.5 seconds)



3. After pairing is successful, the left key is OFF, the right key is ON.

## 8. Clear pairing

1. If you need to clear pairing of switch and controller, long press the controller "pairing key" for around 12 seconds, the indicator light will flash from slowly - quickly - stay still - off. After indicator light is off, which means that all paired switch information is cleared. If you need use this controller again, please pair again.



Press for around 12 seconds, the indicator light will from flash slowly - flash quickly - stay still - off.

## 9. APP download

This controller can use mobile APP to remote control. Search “ENERJSMART” in App Store or Google Play and download, or scan below QR code to download.



ENERJSMART



Android



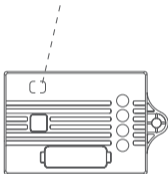
iOS

## 10. Connect Wi-Fi method

1. Use your mobile phone to download APP and follow the prompts to register your account in the APP.
2. Power on the controller, and confirm the indicator light is flashing quickly (twice per second). If the indicator light is not flashing quickly, keep pressing the "pairing key" around 10 seconds, the indicator light will flash from slow - fast - stay still, release when the indicator light is stay still. Then wait for 3 seconds, the indicator light will flash quickly (twice per second).
3. Click "Add device" in the APP and select model "single dimming controller".
4. Then click "confirm indicator light rapidly blink" and enter password of Wi-Fi, it starts to connect. If the indicator light goes off, which means APP connect successfully.
5. After the pairing with network is successful, so can use mobile APP to remote control, timed control and scene control.
6. If change Wi-Fi router or change Wi-Fi

password, please repeat setting fro second step.

Confirm the indicator light flashes quickly



Pairing the three devices as close as possible

## 11. ECHO

1. In the kinetic switch APP, rename the controller devices, such as bedroom lights.
2. Add the skill ENERJSMART in Alexa APP, and log 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 voice control the controller.



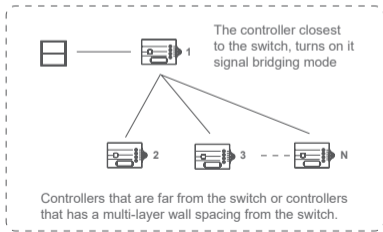
Alexa, turn on/off bedroom light  
Alexa, bright bedroom light

## 12. Bridging mode

Under the one-to-multi mode control, when the distance is long or there is multiple walls between the switch and the controller, the signal will be weakened, and the control is not effective.

1. As the diagram, pair all controllers first with the

- switch. Then turn on the bridging mode of the controller closest to the switch (controller 1).
2. Long press the controller 1 “pairing key” for 7 seconds, and let go when the indicator light is quickly flashing. Wait for a few seconds after the light flash once every two seconds, means that the controller bridging mode is open.
  3. When turn on the bridging mode, the controller will enhance the switch signal to controller 2 - Controller N to prevent the loss of signal.





## 13. Troubleshooting

1. Wi-Fi failed internet pairing

**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 Wi-Fi method.

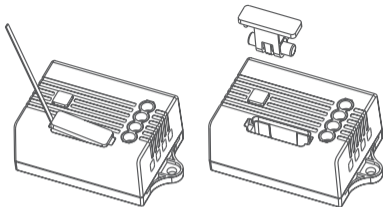
Let router, controller and mobile phone as close as possible (within 5 meters).

2. The controller is off line in APP

**Troubleshooting method:** It may be the router connections quantity reaches the upper limit. Common router can connect maximum 15 pcs devices, please upgrade router and close devices which are not needed.

3. Controller cannot work after it is powered on

**Troubleshooting method:** If the loads exceed the rated current or short circuit, the fuse may blow. Please first exclude the short circuit, open the insurance cover and replace the same specification fuse.



4. When the loads is LED lamp, the lamp will flash during dimming

**Troubleshooting method:** Please check the parameters of the LED lamp to confirm that it can support TRIAC dimming method. If it does not support, please replace supporting TRIAC lamp.

**CERTIFICATE  
INSPECTED**

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