

ENER-J[®]

Smart Home Living

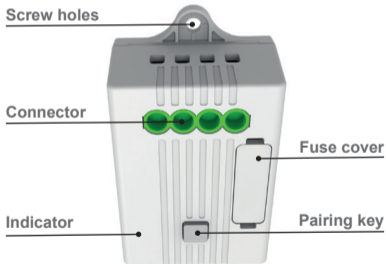


Non Dimmable Receiver Controller

Installation Guide

1. Introduction

WS1016-17 controller can be used with wireless kinetic energy switch to control electrical appliances.

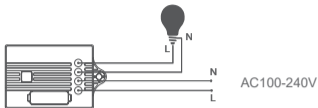


2. Parameters

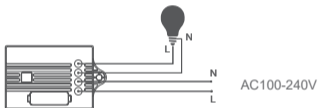
Product model	ERC302(WS1016) ERC304(WS1017)
Product SKU	WS1016/WS1017
Product name	Receiving controller
Working temperature	-20°C~+55°C
Distance	150m (outdoor) 30m (indoor)
Sensitivity	-110dBm
Voltage	100-240V 50/60Hz
Dimension	L70*W44*H29mm
Rated power	WS1016 Max 5A, WS1017 Max 10A
Wireless communication	RF 433Mhz
Storage capacity	Up to 10 switches can be paired
Executive standard	EN60669-1:1999 +A1 :2002 +A2 :2008

Note: The effective distance is measured by Laboratory and will vary in actual use due to environment changes.

3. Connection and Installtion



WS1016 Connection method



WS1017 Connection method



Introduction method 1:

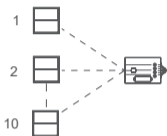
Paste with double-sided adhesive tape on clean surface.

Introduction method 2:

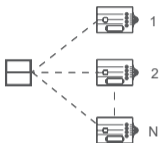
Fix into expansion screw in the wall.

4. Combination Method

This controller and the kinetic energy switch can be freely combined by pairing to form the one-to-multi, and multi-to-one control one.



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



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

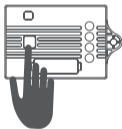
5. Ordinary Pairing Method

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).
The WS1017 dual controller has two channels, which are represented by red and blue indicators. The "pairing key".
2. Press the selected kinetic energy switch once

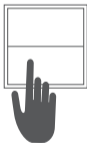
(Do not press several times continuously), then indicator light is off, means the pairing is successful.

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. Without loads, the indicator light is on, means the controller is working , vice versa.

Ordinary pairing method



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



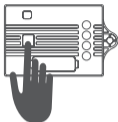
2. Press the kinetic switch once

6. 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, we define the directional pairing mode. Directional pairing only support rocker type switch and 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. For rocker type switch, quick press the switch key twice (within 0.5 second), then the indicator light goes off, which means the pairing is successful.
3. After pairing is successful, for rocker type switch, pressing above button is OFF, pressing below button is ON. For push button switch left and right key as a group, pressing the left key is OFF and pressing the right key is ON, long pressing the left key is dimming, long pressing right key brighten the lights.

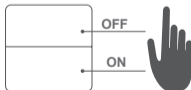
Directional pairing of Rocker Style Switch



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

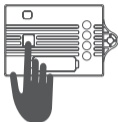


2. Quick press the upside and downside of switch once respectively (within 0.5 seconds)



3. After pairing is successful, the above button is OFF, the below button key is ON.

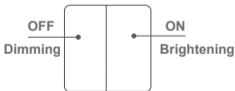
Directional pairing of push button
(only supports 2 keys or 6 keys)



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



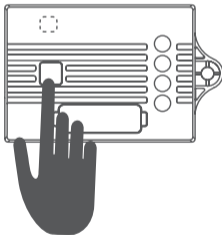
2. Quick press any key four times (within 1 second)



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

7. Clear pairing

1. If you need to unmatch the kinetic energy switch and the controller, press and hold the controller "pairing key" for about 12 seconds. The indicator flashes - keeps lit - until off. At that time, all the previous paired information of kinetic switch with this controller is cleared. If need to used the controller again, please follow the instructions to pair again.



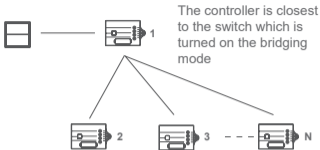
Press and hold for about 12 seconds, the indicator flashes until it is lit, and finally it goes out.

8. Bridging mode

To increase the distance of control and the ability to penetrate the wall, we have defined the Bridging mode function.

The bridging mode is recommended to use when the distance is too long between switch and controller in one control multi mode.

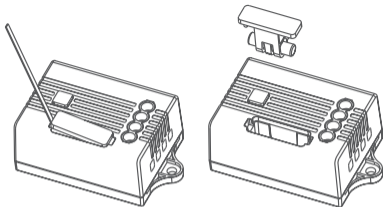
1. First pair the switch with all controllers (Using Directional Pairing).
2. As shown in the figure, select controller 1 that is closest to the switch and open the controller Bridging Mode.
3. Press and hold the “pairing key” on the controller 1 for about 7 seconds. The indicator light flashes from slowly to quickly. Release the button. Wait a few seconds, the controller’s indicator flashes once every two seconds, bridging mode is turned on.
4. After the bridging mode is on, the controller with activated bridging function will forward and enhance the signal in order to increase the control distance and the ability to penetrate the wall.



Controllers that are far from the switch or there are several walls between switch and controller.

13. Troubleshooting

1. After the controller is power on, press the pairing button, but indicator light is still off..
Troubleshooting method: If you use a load that exceeds the rated current or it is short circuit, the fuse may has blown. Please exclude the short-circuit fault, open the cover and replace with smae fuses of the same specifications.



2. When the load is LED light, the LED lamp has weak glow in the off state.

Troubleshooting method: Please follow the L (live line) and N (neutral line) symbols of the controller to correctly wire the neutral and live line at the input part.

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