ENER-J®
Smart Home Living

# ECO SERIES
# Wireless Switch/
# Receiver Controller

SKU Code:
WS1050/WS1051/WS1052/WS1050B/WS1051B/WS1052B/WS1050S/
WS1051S/WS1052S/WS1055/WS1056/WS1057/WS1060/WS1061/WS1062

Wireless Gang Switch, Installation-Easy, Battery-Free Wall On/Off Switch Outdoor Waterproof IP65 Wireless Kinetic Switch for Lamp Electric Appliance.

WiFi

ECO RANGE

IP65

Non Dimmable

Dimmable

**works with**

Press with a finger to produce kinetic energy

Internal module collects kinetic energy

Kinetic energy is converted into electricity

Communication module transmits signal

Receiver controls the light

WARRANTY 3 YEARS

## Features

1. **Self-supply and dimmable:** The non dimmer/dimmer switch requires no batteries and no power connection. The energy is built up kinetically by pressing the switch. Small structure and can be used as non dimmable as well as dimmable. Through long press to circularly dim the brightness to suit any activity. Turn on the light again, and it maintains the last light intensity. With this ENER-J light switch, you don't need to pay the extra money to buy a dimmer.

2. **Multiple light switches connectable:** A receiver can be connected with up to 10 switches. This allows you to operate a light source with multiple switches. Quite simply as additional switches to existing light switches. Stepless dimming function and storage brightness.

3. **Range and Usage:** The effective range between transmitter and receiver is approximately 30 meters indoors and approximately 160 meters outdoors. ENER-J receiver can connect to multiple ENER-J switches. Ideal to control your garden house, outdoor lighting from the comfort of the house!

4. **Never route power cables, ready for use:** No slots knocking, no junction box required. Wireless use without drilling and screws. Can be mounted with adhesive tape or simply screwed on. Ready for use within a few minutes. The radio switch allows you to mount in all places. For example, Glue in glass, marble, wood, metal surface or traditional with screw.

5. **Long life and warranty:** Ultra-low-power design. Useful life up to 50 years and up to 200,000 keystrokes. Comes with 2 years warranty.

ECO RANGE

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## 1 Gang Switch Technical Parameters

1. **Model No:** S111
2. **SKU:** WS1050
3. **Work Type:** Reciprocating work by 86 type lever
4. **Power Model:** Power generation by mechanical force
5. **Work Frequency:** 433MHz
6. **Number Keys:** 1 key
7. **Colour:** White
8. **Lifetime:** 100,000 times
9. **Distance:** 30m(indoor), 80m(outdoor)
10. **Waterproof Level:** IP65
11. **Weight:** 80g
12. **Certification:** CE, RoHS
13. **Dimension:** L86mm * W86mm * H14mm



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## 2 Gang Switch Technical Parameters

1. **Model No:** S112
2. **SKU:** WS1051
3. **Work Type:** Reciprocating work by 86 type lever
4. **Power Model:** Power generation by mechanical force
5. **Work Frequency:** 433MHz
6. **Number Keys:** 2 keys
7. **Colour:** White
8. **Lifetime:** 100,000 times
9. **Distance:** 30m(indoor), 80m(outdoor)
10. **Waterproof Level:** IP65
11. **Weight:** 80g
12. **Certification:** CE, RoHS
13. **Dimension:** L86mm * W86mm * H14mm



ECO RANGE

IP65

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## 3 Gang Switch Technical Parameters

1. **Model No:** S113
2. **SKU:** WS1052
3. **Work Type:** Reciprocating work by 86 type lever
4. **Power Model:** Power generation by mechanical force
5. **Work Frequency:** 433MHz
6. **Number Keys:** 3 keys
7. **Colour:** White
8. **Lifetime:** 100,000 times
9. **Distance:** 30m(indoor), 80m(outdoor)
10. **Waterproof Level:** IP65
11. **Weight:** 80g
12. **Certification:** CE, RoHS
13. **Dimension:** L86mm * W86mm * H14mm

ECO RANGE

IP65

## 1 Gang Switch Technical Parameters

1. **Model No**: S111
2. **SKU**: WS1050B
3. **Work Type**: Reciprocating work by 86 type lever
4. **Power Model**: Power generation by mechanical force
5. **Work Frequency**: 433MHz
6. **Number Keys**: 1 key
7. **Colour**: Black
8. **Lifetime**: 100,000 times
9. **Distance**: 30m(indoor), 80m(outdoor)
10. **Waterproof Level**: IP65
11. **Weight**: 80g
12. **Certification**: CE, RoHS
13. **Dimension**: L86mm * W86mm * H14mm

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ECO RANGE

IP65

## 2 Gang Switch Technical Parameters

1. **Model No**: S112
2. **SKU**: WS1051B
3. **Work Type**: Reciprocating work by 86 type lever
4. **Power Model**: Power generation by mechanical force
5. **Work Frequency**: 433MHz
6. **Number Keys**: 2 keys
7. **Colour**: Black
8. **Lifetime**: 100,000 times
9. **Distance**: 30m(indoor), 80m(outdoor)
10. **Waterproof Level**: IP65
11. **Weight**: 80g
12. **Certification**: CE, RoHS
13. **Dimension**: L86mm * W86mm * H14mm

Press with a finger to produce kinetic energy | Internal module collects kinetic energy | Kinetic energy is converted into electricity | Communication module transmits signal | Receiver controls the light

ECO RANGE

IP65

## 3 Gang Switch Technical Parameters

1. **Model No**: S113
2. **SKU**: WS1052B
3. **Work Type**: Reciprocating work by 86 type lever
4. **Power Model**: Power generation by mechanical force
5. **Work Frequency**: 433MHz
6. **Number Keys**: 3 keys
7. **Colour**: Black
8. **Lifetime**: 100,000 times
9. **Distance**: 30m(indoor), 80m(outdoor)
10. **Waterproof Level**: IP65
11. **Weight**: 80g
12. **Certification**: CE, RoHS
13. **Dimension**: L86mm * W86mm * H14mm

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## ECO RANGE
IP65

### 1 Gang Switch Technical Parameters

1. **Model No**: S111
2. **SKU**: WS1050S
3. **Work Type**: Reciprocating work by 86 type lever
4. **Power Model**: Power generation by mechanical force
5. **Work Frequency**: 433MHz
6. **Number Keys**: 1 key
7. **Colour**: Silver
8. **Lifetime**: 100,000 times
9. **Distance**: 30m(indoor), 80m(outdoor)
10. **Waterproof Level**: IP65
11. **Weight**: 80g
12. **Certification**: CE, RoHS
13. **Dimension**: L86mm * W86mm * H14mm

Press with a finger to produce kinetic energy | Internal module collects kinetic energy | Kinetic energy is converted into electricity | Communication module transmits signal | Receiver controls the light

## ECO RANGE
IP65

### 2 Gang Switch Technical Parameters

1. **Model No**: S112
2. **SKU**: WS1051S
3. **Work Type**: Reciprocating work by 86 type lever
4. **Power Model**: Power generation by mechanical force
5. **Work Frequency**: 433MHz
6. **Number Keys**: 2 keys
7. **Colour**: Silver
8. **Lifetime**: 100,000 times
9. **Distance**: 30m(indoor), 80m(outdoor)
10. **Waterproof Level**: IP65
11. **Weight**: 80g
12. **Certification**: CE, RoHS
13. **Dimension**: L86mm * W86mm * H14mm

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## ECO RANGE
IP65

### 3 Gang Switch Technical Parameters

1. **Model No**: S113
2. **SKU**: WS1052S
3. **Work Type**: Reciprocating work by 86 type lever
4. **Power Model**: Power generation by mechanical force
5. **Work Frequency**: 433MHz
6. **Number Keys**: 3 keys
7. **Colour**: Silver
8. **Lifetime**: 100,000 times
9. **Distance**: 30m(indoor), 80m(outdoor)
10. **Waterproof Level**: IP65
11. **Weight**: 80g
12. **Certification**: CE, RoHS
13. **Dimension**: L86mm * W86mm * H14mm

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### ECO RANGE

### Non Dimmable

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## Receiver Technical Parameters

### For 500W Non-Dimmable Receiver (RF Only)

1. **Model No:** K10R
2. **SKU:** WS1055
3. **Power Consumption:** <0.1W
4. **Working Temperature:** -20°C - 55°C
5. **Storage Capacity:** 10 switch-keys
6. **Power Model:** AC 100-250V, 50/60 Hz
7. **Distance:** 30m(indoor), 80m(outdoor)
8. **Colour:** White
9. **Rated Current:** 5A
10. **Weight:** 50g
11. **Comm:** ASK / 433MHz
12. **Certification:** CE, RoHS
13. **Dimension:** L75mm * W52mm * H25mm

Do not place Receiver controller in metal enclosure.

**Important note:** Isolate power before connecting receiver. Failure to do so can cause electric shock, fire or other hazards.

### ECO RANGE

### Dimmable

### Wi Fi

**works with**

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Communication module transmits signal

Receiver controls the light

## Receiver Technical Parameters

### For 100W Dimmable RF+Wi-Fi Receiver

1. **Model No:** K10D
2. **SKU:** WS1056
3. **Power Consumption:** <0.1W
4. **Working Temperature:** -20°C - 55°C
5. **Storage Capacity:** 10 switch-keys
6. **Power Model:** AC 100-250V, 50/60 Hz
7. **Distance:** 30m(indoor), 80m(outdoor)
8. **Colour:** White
9. **Rated Current:** 1.5A
10. **Weight:** 50g
11. **Comm:** ASK / 433MHz / 2.4G Wi-Fi
12. **Certification:** CE, RoHS
13. **Dimension:** L75mm * W52mm * H25mm

*Alexa and Google Home compatible only with our Wi-Fi Receiver Module WS1056 & WS1057.

Do not place Receiver controller in metal enclosure.

**Important note:** Isolate power before connecting receiver. Failure to do so can cause electric shock, fire or other hazards.

### ECO RANGE

### Non Dimmable

### Wi Fi

**works with**

Press with a finger to produce kinetic energy

Internal module collects kinetic energy

Kinetic energy is converted into electricity

Communication module transmits signal

Receiver controls the light

## Receiver Technical Parameters

### For 500W Non-Dimmable RF+Wi-Fi Receiver

1. **Model No:** K10W
2. **SKU:** WS1057
3. **Power Consumption:** <0.1W
4. **Working Temperature:** -20°C - 55°C
5. **Storage Capacity:** 10 switch-keys
6. **Power Model:** AC 100-250V, 50/60 Hz
7. **Distance:** 30m(indoor), 80m(outdoor)
8. **Colour:** White
9. **Rated Current:** 5A
10. **Weight:** 50g
11. **Comm:** ASK / 433MHz / 2.4G Wi-Fi
12. **Certification:** CE, RoHS
13. **Dimension:** L75mm * W52mm * H25mm

*Alexa and Google Home compatible only with our Wi-Fi Receiver Module WS1056 & WS1057.

Do not place Receiver controller in metal enclosure.

**Important note:** Isolate power before connecting receiver. Failure to do so can cause electric shock, fire or other hazards.

# ENER-J®
## Smart Home Living



**ECO RANGE**

IP65

Non Dimmable

Press with a finger to produce kinetic energy | Internal module collects kinetic energy | Kinetic energy is converted into electricity | Communication module transmits signal | Receiver controls the light

### 1 Gang Kinetic Switch / 500W RF Receiver

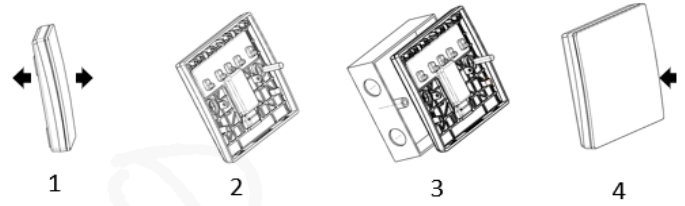| Details | 1 Gang Switch | 500 RF Receiver |
|---|---|---|
| SKU | WS1061 | |
| Model | S111 | K10R |
| Work type | Reciprocating work by 86 type lever | |
| Power Model | Power generation by mechanical force | |
| Lifetime | 100,000 times | |
| Waterproof | IP65 | |
| Power cons. | | <0.1W |
| Working temp. | | -20°C - 55°C |
| Storage capacity | | 10 switch-keys |
| Power model | | AC 100-250V, 50/60Hz |
| Rated current | | 5A |
| Dimmable | | No |
| Communication | ASK / 433MHz | |
| Distance | 30m(indoor), 80m(outdoor) | |
| Certification | CE, RoHS | |
| Weight | 80g | 50g |
| Dimensions | 86 x 86 x 14 mm | 75 x 52 x 25 mm |



**ECO RANGE**

IP65

Dimmable

Wi-Fi

works with

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### 1 Gang Kinetic Switch / 100W RF+Wi-Fi Receiver

| Details | 1 Gang Switch | 100W RF Wi-Fi Receiver |
|---|---|---|
| SKU | WS1061 | |
| Model | S111 | K10D |
| Work type | Reciprocating work by 86 type lever | |
| Power Model | Power generation by mechanical force | |
| Lifetime | 100,000 times | |
| Waterproof | IP65 | |
| Power cons. | | <0.1W |
| Working temp. | | -20°C - 55°C |
| Storage capacity | | 10 switch-keys |
| Power model | | AC 100-250V, 50/60Hz |
| Rated current | | 1.5A |
| Dimmable | | Yes |
| Communication | ASK / 433MHz / 2.4GHz Wi-Fi | |
| Distance | 30m(indoor), 80m(outdoor) | |
| Certification | CE, RoHS | |
| Weight | 80g | 50g |
| Dimensions | 86 x 86 x 14 mm | 75 x 52 x 25 mm |
| Works with | Amazon Alexa, Google Home & Assistant | |



**ECO RANGE**

IP65

Non Dimmable

Wi-Fi

works with

Press with a finger to produce kinetic energy | Internal module collects kinetic energy | Kinetic energy is converted into electricity | Communication module transmits signal | Receiver controls the light

### 1 Gang Kinetic Switch / 500W RF+Wi-Fi Receiver

| Details | 1 Gang Switch | 500W RF Wi-Fi Receiver |
|---|---|---|
| SKU | WS1062 | |
| Model | S111 | K10W |
| Work type | Reciprocating work by 86 type lever | |
| Power Model | Power generation by mechanical force | |
| Lifetime | 100,000 times | |
| Waterproof | IP65 | |
| Power cons. | | <0.1W |
| Working temp. | | -20°C - 55°C |
| Storage capacity | | 10 switch-keys |
| Power model | | AC 100-250V, 50/60Hz |
| Rated current | | 5A |
| Dimmable | | Yes |
| Communication | ASK / 433MHz / 2.4GHz Wi-Fi | |
| Distance | 30m(indoor), 80m(outdoor) | |
| Certification | CE, RoHS | |
| Weight | 80g | 50g |
| Dimensions | 86 x 86 x 14 mm | 75 x 52 x 25 mm |
| Works with | Amazon Alexa, Google Home & Assistant | |

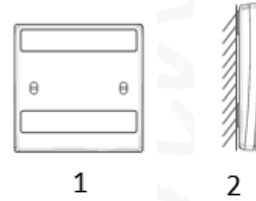## Installation method of stainless steel fixed plate

1. Open the switch panel.
2. Fix the base on the wall (expansion screw sleeve is needed) or fixture.
3. Fix it, install the button shell to the base shell.
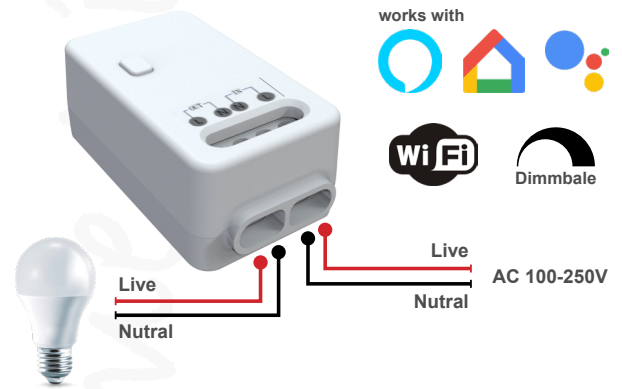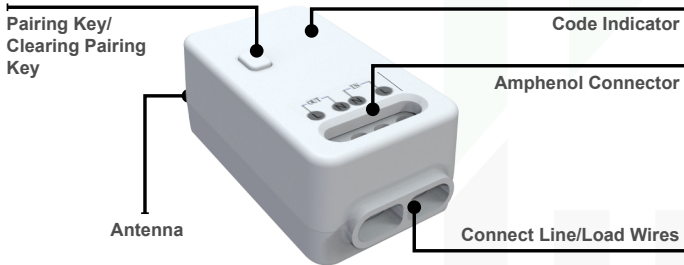


1    2    3    4

## Installation method of Double-sided adhesive tape

1. Paste the double-side adhesive on the back of switch.
2. Clean the wall or glass surface to paste the switch on it.

**Important note**: There are precision parts inside the switch. When installing, it is strictly prohibited to dismantle the panel



1    2

## Installation method and Combination Method



Pairing Key/
Clearing Pairing
Key

Code Indicator

Amphenol Connector

Antenna

Connect Line/Load Wires

works with

Wi Fi    Dimmbale

Live

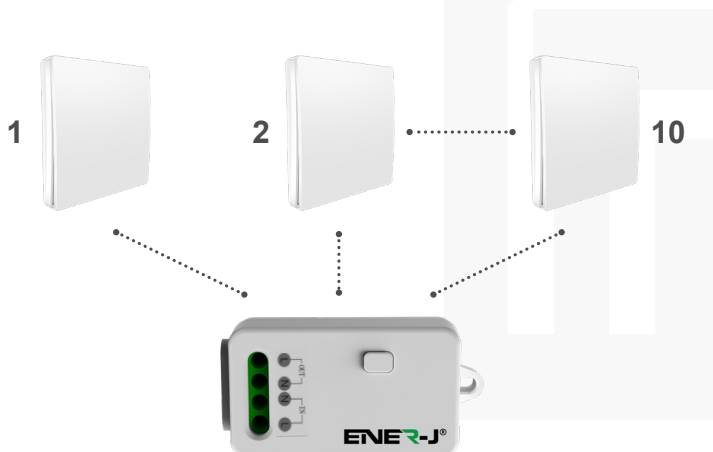Nutral

Live

Nutral

AC 100-250V

Installation method 1:
Paste with double-side adhesive tape on clean surface.



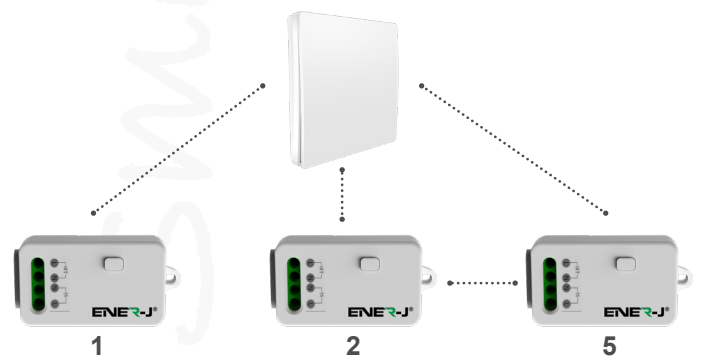Installation method 2:
Fix into expansion screw in the wall.



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



1    2    10

One control multi:
(One switch key can control 5 controllers).

**Important note: Isolate power before connecting receiver. Failure to do so can cause electric shock, fire or other hazards.**
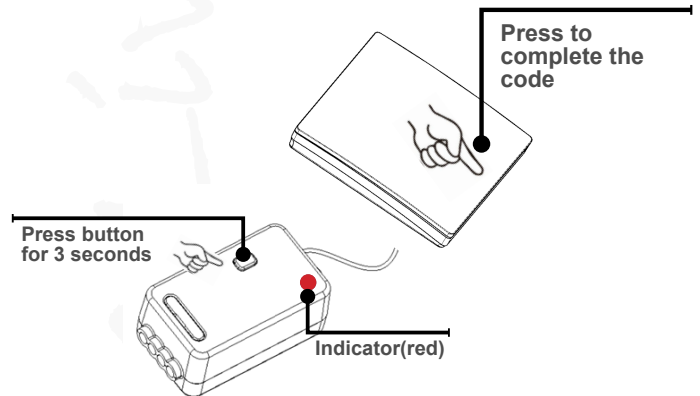


1    2    5

## Instruction of Dimming Function

1. K10D controller uses TRIAC components. Supports incandescent lamp, tungsten lamp and mostly all LED lamp which supports TRIAC dimming. If flickering occurs during dimming, we recommend replacing the LED lamp. Segmented dimmers and lamps with dimmers are not supported.

2. This controller can only pair with push button switch: after pairing is successful, quickly press the push button switch 3 times and you will be able adjust lamp brightness. Press the switch once when you reach the level of brightness desired. Also can use mobile APP or Alexa voice control to control brightness.

3. This controller has a brightness memory function. When turn on the lamp again, it maintains the last brightness level. If paired with multiple switches, this controller can memorize the brightness level of each switch.

4. If you didn't press switch key to confirm the brightness, the controller dims from the darkest to brightest for 2 cycles, and will stop dimming when reaching maximum brightness after 2 cycles.
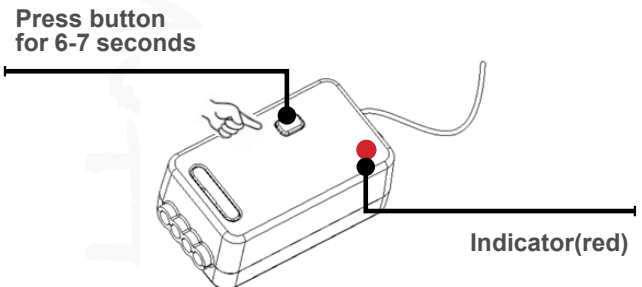
## Switch Pairing Method

1. Ensure the receiver controller is connected to 100-250V AC and power is 'on'.

2. Press the function button for 3~5 seconds, (the indicator light will flicker slowly) then release the button to enter the pairing mode.

3. Press the "wireless switch" to be paired, when the indicator light stops flashing, at this time the indicator lights will come on or off with the press of switch, indicating pairing a success.

4. Repeat above steps to add multiple switches. The receiver can store up to 20 switch codes.

5. Repeat this process for each button on Double and Triple switch.

**Press to complete the code**

**Press button for 3 seconds**

**Indicator(red)**

## Clear pairing

Press the button for more than 6~7 seconds, the indicator quickly flashes 10 times and at the same time, the relay performs the turn-on/off action quickly, this indicates all recorded codes have been deleted.

**Press button for 6-7 seconds**

**Indicator(red)**

## FAQ

1. **How to use the item? Is it easy to install?**
   Super easy to install. In just 3 steps, you can add or relocate a wireless switch for your house within 5 minutes.
   1. Install the receiver between the lamp to be controlled and the power supply,
   2. Program the receiver and wireless switch,
   3. The wireless switch can be placed where it matters, or carried with you.

2. **If the switch is on and there is a power cut, will the switch still be on when power is restored? If not can the default action be changed?**
   The default setting is off, so the switch will not stay on. This can prevent the sudden increase in voltage and current when the power supply is restored from damaging the lamp.
   The default setting can be changed by pressing and holding the receiver setting button for 16 seconds, and releasing your finger when the indicator light stays on.

3. **Will it cause signal interference if multiple wireless switches are installed in the home?**
   No. The signal between the paired switch and the receiver is independent and encrypted. Will not cause interference.