Installation Guide



C2161R

RF Outdoor Relay Receiver

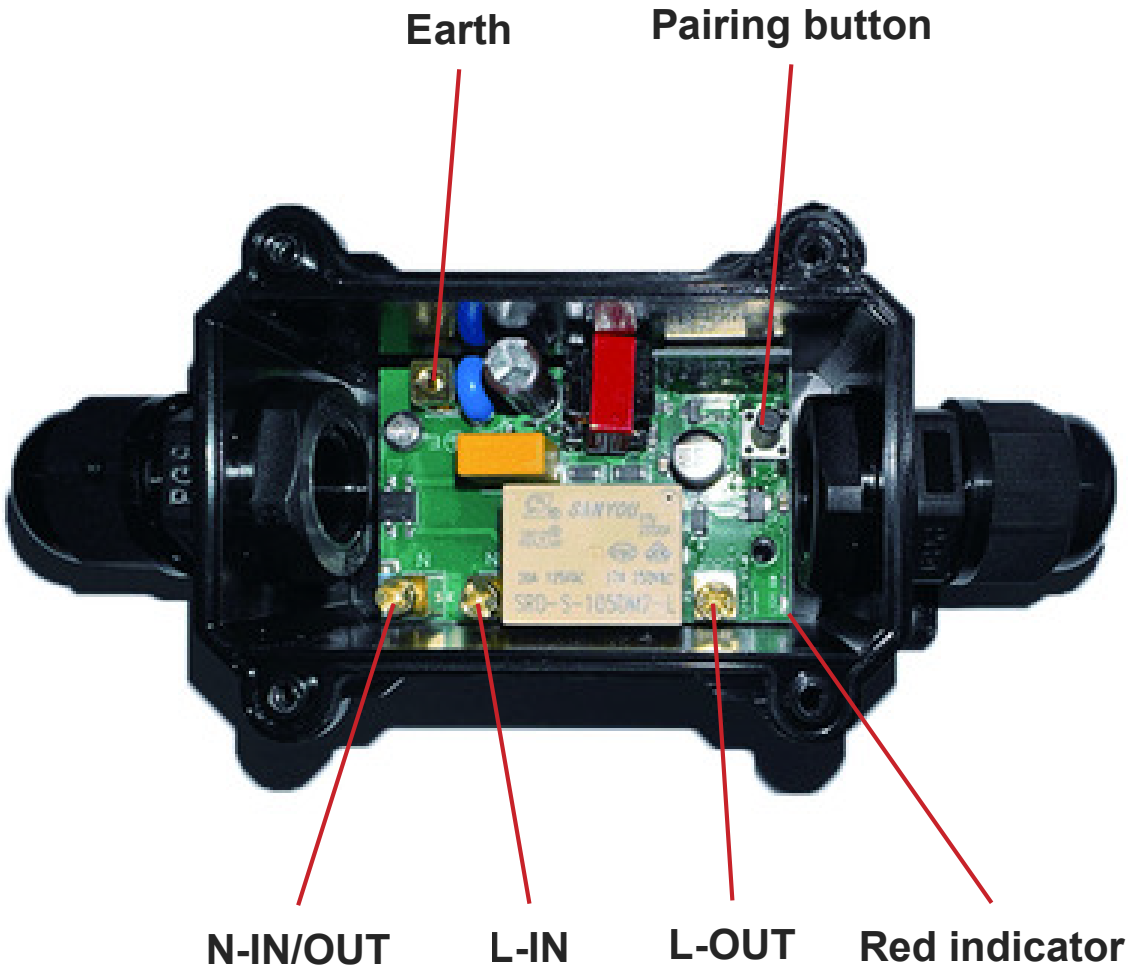
For compatible wireless kinetic switches.

Technical parameters

Input / output	100–240 V AC 50/60 Hz
Rated current	16 A max.
Resistive load	3680 W max. 230–240 V AC only
LED load	800 W max. 100–240 V AC
Wireless protocol	433 MHz RF (ASK)
Pairing capacity	Up to 10 different kinetic switches
Housing	Black PC

Do not exceed 16 A at any supply voltage. Observe the separate resistive and LED load limits above.

1. Product and terminal identification



Isolate the mains supply before opening or refitting the cover, or touching the terminals.

2. Supply and load connections

Isolate the mains supply before wiring or servicing. Installation must be carried out by a qualified electrician.

Connect the supply and load conductors to the terminals shown on page 3.

L-IN	Live from the mains supply
L-OUT	Switched live to the load
N-IN/OUT	Neutral connection for the supply and load
Earth	Protective earth connection

Internal button access is for a qualified electrician only. Never press the button with your fingers or touch internal components. Follow the manufacturer's safe commissioning procedure.

3. Normal pairing

Internal button access: qualified electricians only. See the precautions on page 4.

Pairing steps

1. With the receiver powered, press and hold its pairing button for about 3 seconds.

2. Release the button when the red indicator lights up.

3. Press one key of a compatible wireless switch once. Avoid rapid repeated presses.

4. The red indicator goes out when pairing succeeds. Test the switch.

If no wireless key is paired within 60 seconds, the receiver exits pairing mode and the red indicator goes out.

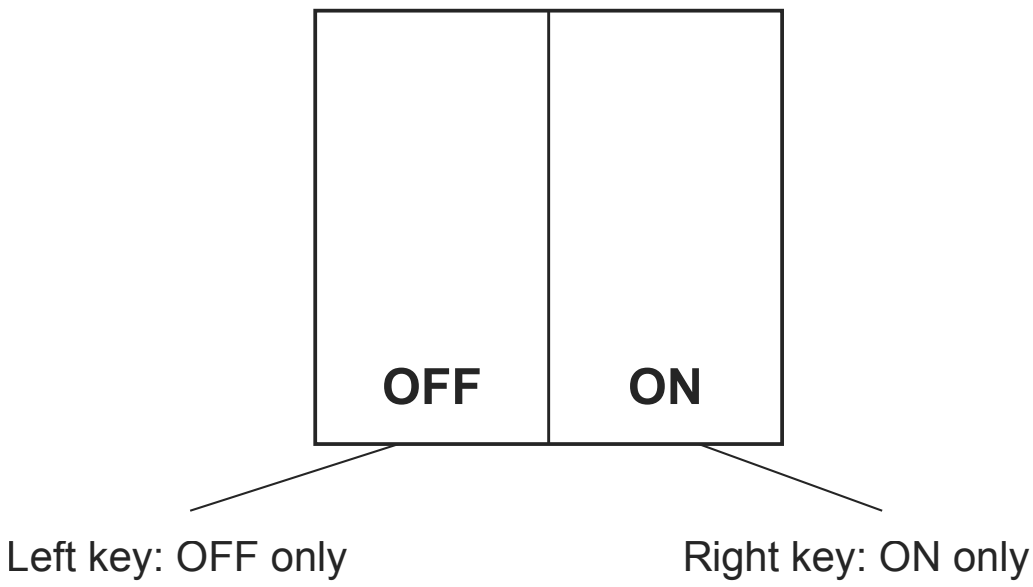
For the pairing button and red indicator, see the product diagram on page 3.

4. Optional directional pairing

For 2-gang switches only. Normal pairing remains suitable; directional pairing is optional.

When one switch controls several receivers, a missed signal can leave lights in different states. In directional mode, a short press of the left key sends OFF, and the right key sends ON. Repeat the OFF or ON command if any lights remain out of sync.

Key functions in directional mode



5. Set up directional pairing

Internal button access: qualified electricians only. See the precautions on page 4.

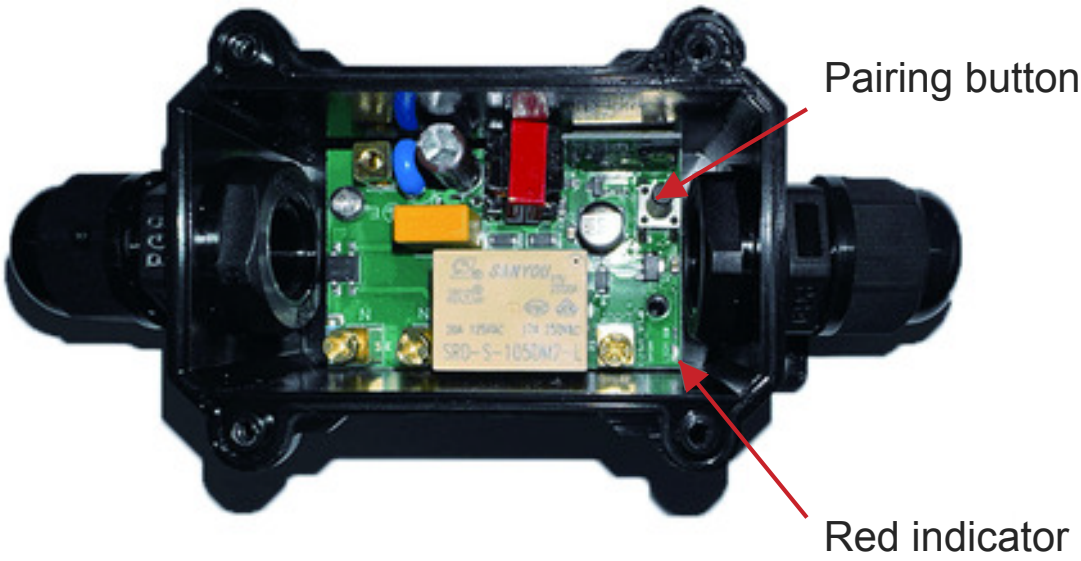
1. Hold the receiver's pairing button for about 3 seconds.

2. Release the button when the red indicator lights up.

3. Press the same key of the 2-gang switch 3 times within 1 second.

4. The red indicator goes out when pairing succeeds.

Test the left key for OFF and the right key for ON.



6. Clearing and troubleshooting

Clear all paired switches

Hold the pairing button for about 6 seconds. Release it when the red indicator changes from on to off. It flashes 3 times to confirm that all paired switches have been cleared.

Pair the required wireless switches again after clearing.

Internal button precautions: see page 4.

No wireless response

Check the receiver supply and whether the wireless switch is paired. Move the switch closer and test again.

Pairing does not complete

Repeat the pairing sequence. Press the wireless key once for normal pairing while the red indicator is on.