



USER MANUAL

KESL2254

Single live wire switch-controller

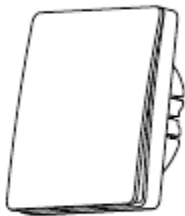
Manufacturer: KONSTRUCTHOR ALL S.R.L., Str. Teleorman nr. 53A, ap. 2, 400573 Cluj-Napoca, Cluj County, Romania

Read this manual before installation and keep it. Version v3, October 2026.

Overview

The KINETIC ENERGY KESL2254 is a single live wire (no neutral) switch-controller with 2 channels. It directly replaces the wired switch on the wall. It is powered from the live wire only, so it does not need a neutral conductor in the wall box.

Its keys switch the light directly. It can also be paired with KINETIC ENERGY switches (wireless, battery-free), for control from several locations (two-way switching, multiple control) without new wiring.



1gang



2 gang

KESL2254 (2 channels)

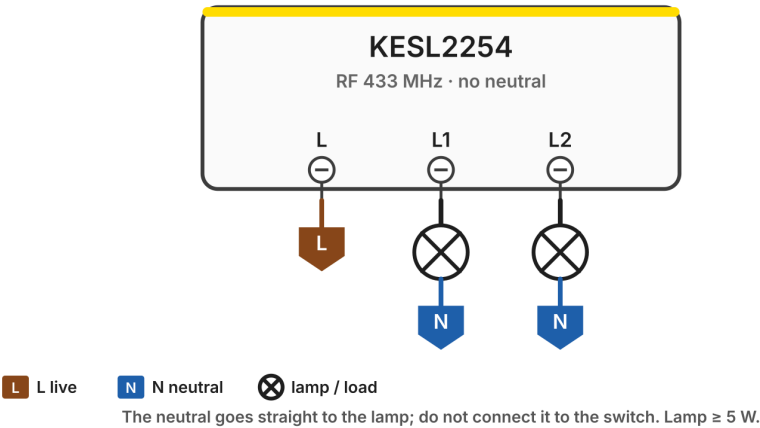
Note: Connect ONLY the live wire. Never connect the live and the neutral at the same time to this product.

Specifications

Parameter	KESL2254
Number of channels (keys)	2
Supply voltage	200–240 V AC, 50/60 Hz
Power supply mode	live only (no neutral)
Maximum load	300 W per channel (600 W in total)
Minimum load	5 W
Key type	push button (momentary)
Radio frequency	433 MHz
Operating range (with KINETIC ENERGY switches)	up to 80 m outdoors / 25 m indoors
Pairing capacity	max. 5 KINETIC ENERGY switch buttons per channel
Operating temperature	-10 °C ... +55 °C
Mounting	standard round wall box (60 mm)

Operating ranges are laboratory values; in practice they depend on the building.

Installation warnings



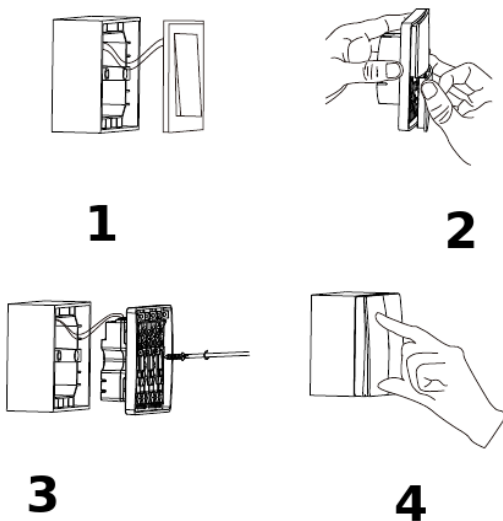
Wiring diagram — KESL2254

- Installation must be carried out by a qualified electrician, with the circuit isolated.
- Connect **ONLY** the live (L) and the outputs to the lamp (L1, L2). Never connect the live and the neutral at the same time to this product.
- The minimum load is 5 W per channel. Below this value, the lamp may glow faintly or flicker when switched off.
- Install the product in a standard round wall box (60 mm). Before installation, clean the wall box of cement and lime debris.

Connection

The neutral goes directly to the lamp, not to the switch. The live enters terminal L of the switch, and outputs L1 and L2 go to the lamp of the respective channel.

Installation



Installation steps 1–4

1. Isolate the circuit and remove the existing switch.
2. Carefully detach the keys of the switch-controller from the base.
3. Connect the conductors as shown in the diagram, then fix the base in the wall box with the screws.
4. Refit the keys on the base, pressing until they lock.

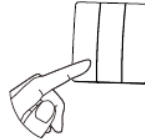
Pairing with KINETIC ENERGY switches

Each channel can be paired with a maximum of 5 KINETIC ENERGY switch buttons.

Standard pairing



Single Live Switch



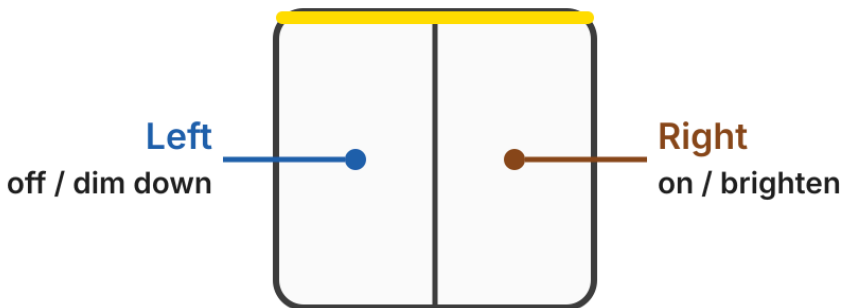
Wireless kinetic switch

Standard pairing: press and hold the channel key, then press the KINETIC ENERGY switch button once

1. Press and hold the key of the required channel for approximately 6 seconds, until the connected lamp starts to flash. Release the key.
2. Press the KINETIC ENERGY switch button once only (not rapidly and not repeatedly). Pairing is complete.
3. To add more buttons to the same channel, repeat steps 1-2.

Directional pairing

Use directional pairing when the same KINETIC ENERGY switch controls several circuits and you want all lamps to always be in the same state. The method works with KINETIC ENERGY switches with 2 or 6 buttons.



Directional pairing: press rapidly 4 times within one second

1. Press and hold the key of the required channel for approximately 6 seconds, until the connected lamp starts to flash. Release the key.
2. Press any button of the KINETIC ENERGY switch rapidly 4 times, in less than one second.

3. After pairing, the two adjacent buttons (left–right) work as a pair: the left button only switches the lamp off, and the right button only switches it on.

Deleting pairings

1. Press and hold the channel key for approximately 12 seconds, until the lamp flashes three times and then stops.
2. Release the key. All pairings of that channel have been deleted.

The channel can then be paired again with either of the methods above.

Troubleshooting

Problem	Cause	Remedy
The lamp glows faintly or flickers when switched off	The lamp power is below 5 W (common with low-power LED bulbs)	Use a lamp of at least 5 W per channel
The KINETIC ENERGY switch only switches off or only switches on	It was paired directionally (rapid presses) instead of standard	Delete the pairings and repeat standard pairing, with a single press
No more buttons can be added	The channel already has 5 buttons paired	Delete the channel pairings and repeat them only for the buttons required

Safety instructions

- Installation must be carried out only by a qualified electrician, with the circuit switched off at the circuit breaker.
- For indoor use in dry rooms only, installed in a wall box, false ceiling or distribution board, out of direct reach.
- Do not exceed the maximum load in the specifications. For motors, transformers or other inductive loads, check compatibility before installation.
- Do not modify the product and do not use it if it is damaged.
- The product contains a radio transmitter. Metal enclosures and metal distribution boards reduce the operating range.

Compliance and legal information

Manufacturer

KONSTRUCTHOR ALL S.R.L. · Str. Teleorman nr. 53A, ap. 2, 400573 Cluj-Napoca, Cluj County, Romania. Phone +40 765 999 915 · office@konstructhor.ro · www.kinetic-energy.eu.

Simplified EU declaration of conformity

Hereby, KONSTRUCTHOR ALL S.R.L. declares that the radio equipment type KESL2254 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.kinetic-energy.ro/declaratie-de-conformitate

Frequency bands and maximum radio-frequency power transmitted

Model	Frequency band	Maximum power transmitted
KESL2254	433 MHz (receive only)	does not transmit

There are no geographical restrictions on putting into service in the EU Member States.

Waste electrical and electronic equipment (WEEE)



The crossed-out wheeled bin symbol means that the product must not be disposed of with household waste. At the end of its life, take it to a collection point for electrical and electronic equipment or return it to the shop where you bought it. Batteries must be taken separately to a collection point for used batteries.

Warranty

For consumers, the seller is liable for any lack of conformity that exists at delivery and becomes apparent within two years of delivery (Directive (EU) 2019/771; in Romania, Government Emergency Ordinance no. 140/2021). Defects caused solely by incorrect installation, overload, moisture or unauthorised work are not covered. Keep your invoice.

KINETIC ENERGY is a registered trademark. Up-to-date manual and declaration of conformity: www.kinetic-energy.eu. Manual version: v3, October 2026.