



USER MANUAL

KES2

Kinetic switches and remotes

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.

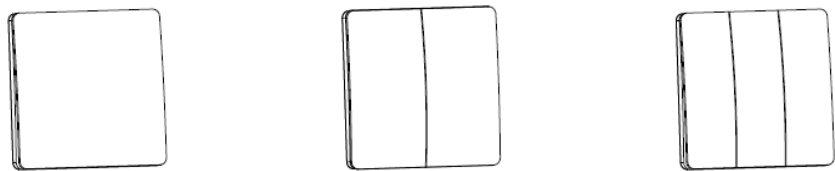
Overview

The S2 series KINETIC ENERGY switches are wireless, battery-free wall switches, available with 1, 2 or 3 buttons in white or black. On each press, a built-in micro-generator converts the kinetic energy of the press into the energy needed to send a 433 MHz radio signal to a KINETIC ENERGY controller.

The transmitters are not connected to the mains and do not switch any load on their own. They work only after pairing with a KINETIC ENERGY controller, which is installed between the power supply and the load (luminaire, motor, etc.). If the controller is a dimmer, a long press adjusts the light intensity.

Available versions:

Code	Type	Number of buttons	Colour
KES2154	S2 wall switch	1	White
KES2100	S2 wall switch	1	Black
KES2254	S2 wall switch	2	White
KES2200	S2 wall switch	2	Black
KES2354	S2 wall switch	3	White
KES2300	S2 wall switch	3	Black



S2 switches with 1, 2 and 3 buttons

Specifications

Parameter	KES2100 · KES2154 · KES2200 · KES2254 · KES2300 · KES2354
Type	Push button (momentary) switch
Number of buttons	1 (KES2100, KES2154), 2 (KES2200, KES2254), 3 (KES2300, KES2354)
Power supply	Battery-free (energy from the press)
Operating frequency	433 MHz
Operating range	up to 80 m outdoors / 25 m indoors (laboratory values; in practice they depend on the building)
Operating temperature	-20 °C ... +55 °C
Ingress protection	IP67
Dimensions	86 × 86 × 16.6 mm
Housing material	PC
Service life	≥ 100,000 presses
Mounting	Double-sided adhesive tape or screws (wall box)

Water resistance (S2 series)

S2 switches have IP67 ingress protection. This means they withstand everyday water splashes (bathroom, terrace, kitchen) and accidental short-term immersion.

- You can install the switch in a bathroom or outdoors, where it may be splashed.
- Do not install the switch under water.
- Do not immerse it deliberately and do not leave it in water.
- If it falls into water, remove it immediately and let it dry.

The switch is not connected to the mains, so there is no risk of electric shock when touching it with wet hands.

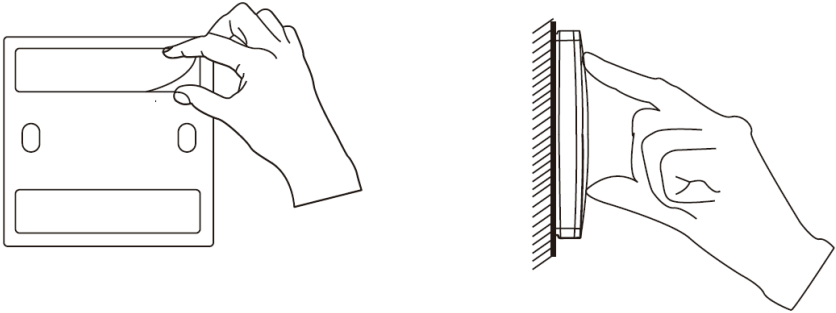
Mounting the S2 switches

Method 1: double-sided adhesive tape

Suitable for smooth, stable, clean surfaces: glass, marble, tiles, stoneware.

1. Clean and dry the mounting surface.
2. Stick the double-sided adhesive tape supplied to the back of the switch.

3. Place the switch on the surface and press firmly for a few seconds.

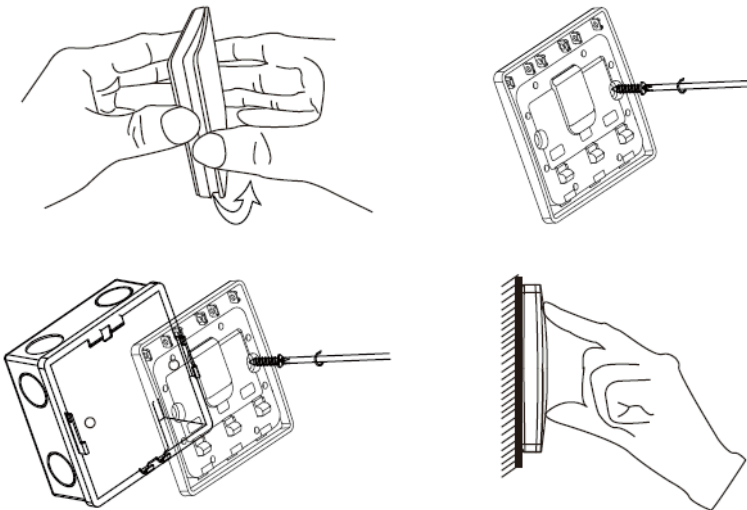


Mounting with double-sided adhesive tape

Method 2: screws

Suitable for a wall or a standard wall box.

1. Carefully detach the key from the switch base, as shown in the figure.
2. Fix the base to the wall or wall box with screws.
3. Place the key back in position and press firmly until it locks onto the base.



Mounting with screws on a wall or wall box

Note: A wall box used only as a support must not contain uninsulated live conductors. The S2 switch is not connected to any wire.

Pairing with the KINETIC ENERGY controller

Pair each button separately. One button can be paired with several controllers to switch several circuits at once. The exact steps and the meaning of the LED are also described in the controller manual.

Standard pairing

The paired button toggles the controller: one press switches on, the next press switches off.

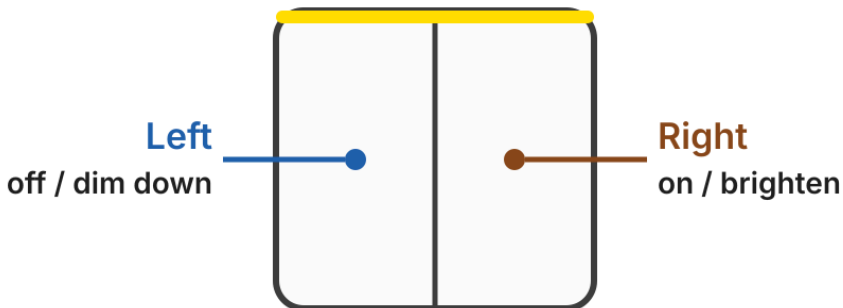
1. Press and hold the controller pairing button for approximately 3 seconds.
2. Release the button when the controller LED starts to flash.
3. Press the button of the switch you want to pair once only. Do not press several times and do not press rapidly.
4. The controller LED turns off: pairing succeeded.
5. To pair other buttons or other transmitters, repeat steps 1–4.

Directional pairing

For KES2200 and KES2254 only (2-button switches).

After directional pairing, the left button only switches off and the right button only switches on. This keeps all controllers operated by the same switch in the same state, even if one of them has missed a command.

1. Press and hold the controller pairing button for approximately 3 seconds.
2. Release the button when the controller LED starts to flash.
3. Press one of the two switch buttons 4 times in less than one second.
4. The controller LED turns off: directional pairing succeeded.



Directional pairing: left switches off and dims down, right switches on and dims up

Note: Do not use directional pairing with 1-button or 3-button switches. The button might then only switch off and be unable to switch the load on again.

If several switches are paired with the same controller and the distance is long, directional pairing is recommended.

Dimming (dimmer controller only)

- Standard pairing: press and hold the button to change the intensity cyclically (up, then down). Release the button at the required level. At the next switch-on, the light returns to the last level used.
- Directional pairing: press and hold the left button to decrease the intensity and the right button to increase it.

Deleting pairings

Deleting is done from the controller, not from the switch.

1. Press and hold the controller pairing button for the time given in the controller manual. Caution: on Wi-Fi controllers, a 10-second press resets the Wi-Fi connection and does not delete the switches.
2. The LED flashes, then turns off. All switches paired with that controller (or channel) have been deleted.
3. Repeat the pairing following the steps above.

Troubleshooting

Problem	Probable cause	Remedy
The key has come off the base (for example, after a fall)	The key has come out of its seat	Check that the plastic is not broken. Place the key back in position and press firmly until it locks onto the base.
The button only switches off or only dims down, but no longer switches on / dims up	The button was pressed several times rapidly during pairing and directional pairing was recorded	Delete the controller pairings (approx. 10 seconds on the pairing button) and repeat standard pairing, pressing the button once only.
The controller does not respond	The transmitter is not paired or is too far away	Repeat the pairing. Move the transmitter closer to the controller and check for thick walls or metal structures between them.

Safety instructions

- The product is battery-free and is not connected to the mains.
- Mount it on clean, dry surfaces. Do not immerse it in water and do not expose it to temperatures outside the specified range.
- Do not open or modify the product.
- The product contains a radio transmitter. Metal surfaces around it 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 KES2100, KES2154, KES2200, KES2254, KES2300, KES2354 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
KES2100	433.3 MHz	4.00 dBm e.r.p. (2.51 mW)
KES2154	433.3 MHz	4.00 dBm e.r.p. (2.51 mW)
KES2200	433.3 MHz	4.00 dBm e.r.p. (2.51 mW)
KES2254	433.3 MHz	4.00 dBm e.r.p. (2.51 mW)
KES2300	433.3 MHz	4.00 dBm e.r.p. (2.51 mW)
KES2354	433.3 MHz	4.00 dBm e.r.p. (2.51 mW)

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.