



USER MANUAL

KERC2208

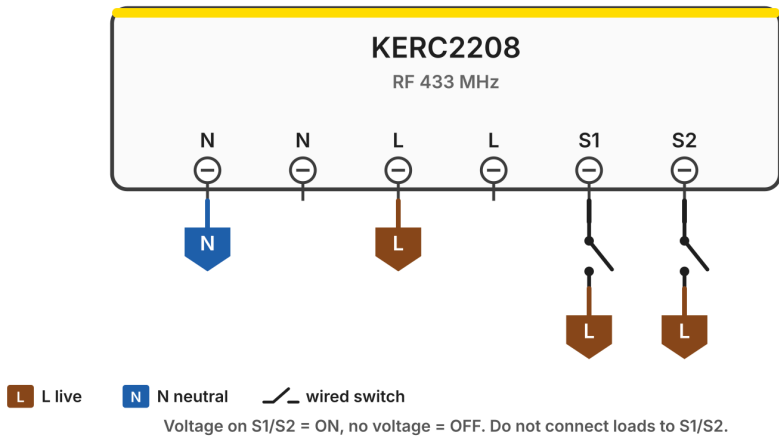
Transmitters for wired switches

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

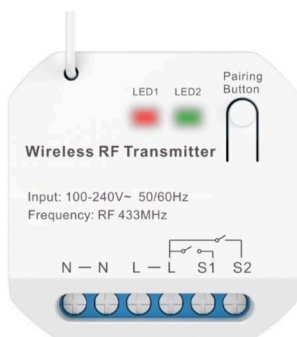
The KERC2208 transmitter turns a conventional wired switch into a wireless control for KINETIC ENERGY controllers. When you operate the wired switch, the transmitter sends a 433 MHz radio signal to the paired controller, which switches or dims the load.



Wiring diagram — KERC2208

They are useful when you want to keep the existing switches in the house but control the lighting or other loads through KINETIC ENERGY controllers, including remotely or from an app (through the Wi-Fi and Zigbee controllers).

- Mains-powered transmitter (100–240 V AC), with two inputs, S1 and S2. Install it in the wall box behind the wired switch or in the ceiling.



KERC2208 transmitter: terminals N-N, L-L (internally linked), inputs S1 and S2, LED1 (red), LED2 (green), pairing button

Specifications

Parameter	KERC2208
Power supply	100–240 V AC, 50/60 Hz
Neutral conductor (N) required	Yes
Number of inputs	2 (S1, S2)
Input type	Voltage input (live switched by the wired switch)
Compatible wired switches	Rocker switches (fixed position)
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
Dimensions	44 × 44 × 22 mm
Indicators and controls	LED1, LED2, pairing button
Antenna	Antenna wire

Elements and terminals

Element	Function
N, N	Neutral conductor (the two N terminals are internally linked)
L, L	Supply live (the two L terminals are internally linked)
S1	Input 1: live switched by the first wired switch
S2	Input 2: live switched by the second wired switch
LED1 (red)	Indicator for input S1
LED2 (green)	Indicator for input S2
Pairing button	Used for pairing with the controller

Connection

Note: The KERC2208 is supplied at 230 V. Installation must be carried out only by a qualified electrician, with the circuit disconnected at the distribution board. Do not work on live circuits.

1. Switch off the circuit breaker of the circuit at the distribution board and verify that the circuit is dead.
2. Connect the neutral (N) to one of the N terminals.
3. Connect the live (L) to one of the L terminals.
4. Connect the live (L) also to the input terminal of the wired switch.
5. Connect the output of the first wired switch (or the first rocker) to S1.
6. For a second rocker or a second switch, connect its output to S2.
7. Do not connect any load to S1 or S2. The load is powered through the KINETIC ENERGY controller.
8. Route the antenna wire as far as possible from metal parts and do not shorten it.
9. Install the transmitter in the wall box, switch the circuit breaker back on and proceed to pairing.

Operation:

- When the wired switch applies voltage to S1 (or S2), the transmitter sends the switch-on command to the paired controller.
- When the wired switch interrupts the voltage, the transmitter sends the switch-off command.

The position of the wired switch therefore always matches the state of the load. Use the KERC2208 with rocker switches (fixed position), not with push buttons (momentary).

Instead of a switch, the 230 V output of another device (thermostat, timer, boiler controller contact) can also be connected to S1 or S2. When the device applies voltage to the input, the paired controller switches on; when the voltage disappears, it switches off. This lets you control a load on another circuit or in another area of the building wirelessly.

Pairing with the KINETIC ENERGY controller

Pair each input (rocker) separately. One input can be paired with several controllers. The exact steps and the meaning of the LED are also described in the controller manual.

1. Press and hold the controller pairing button for approximately 3 seconds.
2. Release the button when the controller LED starts to flash.
3. Operate the wired switch connected to the input you want to pair (S1 or S2) once only.
4. The controller LED turns off: pairing succeeded.
5. For the other input, repeat steps 1–4.

Deleting pairings

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

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 transmitters paired with that controller (or channel) have been deleted.
3. Repeat the pairing following the steps above.

Troubleshooting

Problem	Probable cause	Remedy
The controller does not respond to the wired switch	The input is not paired	Repeat the pairing for that rocker.
No LED responds when the switch is operated	No power supply or wrong connection	The electrician checks N, L and the wire from the switch output to S1/S2.
The command does not reach the controller	The distance is too long or the antenna is next to metal	Take the antenna out of the metal box, move the transmitter closer to the controller or use a controller in repeater mode.

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 KERC2208 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
KERC2208	433 MHz	10 dBm e.r.p. (10 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.