



R1

1-relay module · WiFi

One circuit and one push-button in a mini format, for a wall box.

1

RELAY 8 A

1

INPUT

WiFi

2.4 GHZ

mini

WALL BOX

PART NUMBER **S-RW001**FAMILY **Relays**FIRMWARE **4.3.14**

Installation and user manual

SAFETY

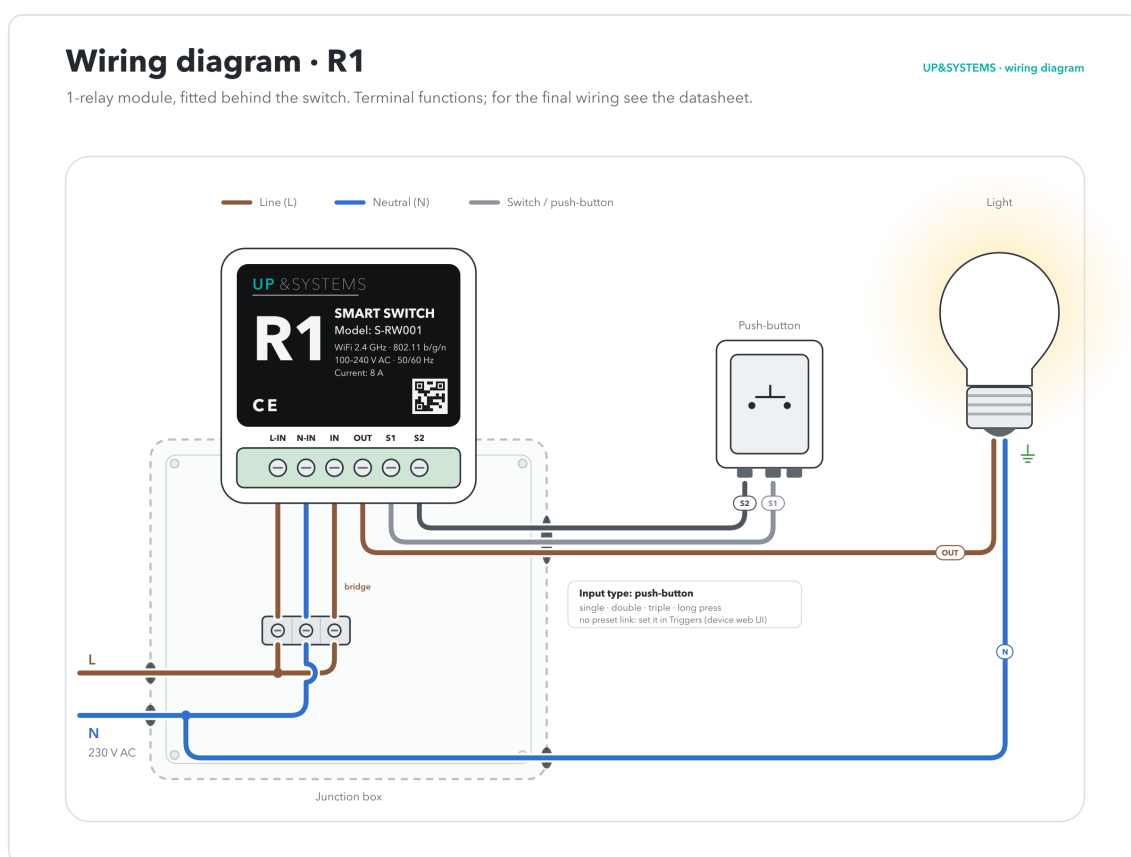
- This device is wired directly to 230 V and its internal circuit is not isolated from the mains. Installation must be carried out by qualified personnel with the power disconnected.
- Always install inside a closed enclosure or panel. Never touch the board while powered.
- Inputs S1 · S2 carry mains voltage: wire only voltage-free push-buttons or switches, never SELV circuits or other devices' inputs.

INSTALLATION

- Power: 100-240 VAC on the L and N terminals shown in the drawing.

- Outputs: each relay has two terminals (volt-free contact). Wire the load in series with its supply. For motors or LED drivers with high inrush, use a contactor.
- Input: push-button or switch between S1 and S2. The contact is at mains voltage. Output: dry contact IN → OUT; in the usual setup IN is bridged to L-IN and the load runs from OUT to neutral.
- Terminals, dimensions and position of each connection: see the technical drawing at the end of this document.

WIRING DIAGRAM · PUSH-BUTTON (DEFAULT)



8 more wiring cases on the following pages.

The load is not wired to the push-button: it goes to the device output. The push-button only gives the command.

1. Push-buttons or switches close a contact between the S1 terminal and the input. Wire them with the power disconnected.
2. Several push-buttons of the same circuit (two points, staircase) are wired in parallel to the same input.

Existing two-way or intermediate switches can be kept as a contact (see the sheets).

3. The luminaire is wired to the relay (previous diagram), with its line and neutral. It no longer goes through the push-button.

4. In the web interface, Inputs → type 'push-button' (with gestures: single, double, triple and long) or 'contact' (maintained switch or two-way switch, every position change toggles).

5. No input is linked by default. Triggers decide what each gesture does: for example 'IN1 single press → R1 toggle'. Double or long press can fire another action or a scene.

WHICH DEVICE TO USE AND HOW TO CONFIGURE IT

Device (trade name)	What it is	How to wire it to the R1	Type in Inputs
Push-button (retractive switch)	Returns by itself when released (bell push or light push-button). Recommended.	Between S2 and S1	Push-button: single, double, triple and long press
One-way switch	Stays on or off. The classic switch for one light from one place.	Between S2 and S1	Contact: every position change toggles the output
Two-way switch (staircase)	Installed in pairs to control one light from two places. Three terminals.	Not needed with the device: each place becomes a push-button on the same input. If kept: common to S1 and one position to S2	Contact
Intermediate switch	The middle one when there are three or more places (long corridors, stairs).	Replace with push-buttons in parallel on the same input	–
Window contact, detector, sensor	Any device with a volt-free contact (NO or NC).	Between S2 and S1	Contact; if NC, enable invert

FIRST START

1. Power up. The LED goes through magenta and cyan. With no WiFi configured it settles on red: this is normal.
2. If the access point is not active, triple-click the button. The LED turns magenta.
3. From a phone, join the WiFi network UP-XXXXX (password up123456) and open <http://192.168.4.1> if it does not open by itself.
4. In Settings → Network, choose the 2.4 GHz WiFi network and enter its password. Save.
5. Afterwards reach the device at <http://UP-XXXXX.local> or at the IP shown by the router. In Settings → User, enable user and password before leaving the installation.
6. The access point switches itself off after 10 minutes without clients.

USING THE WEB INTERFACE

- Output tab: each relay has an ON/OFF switch, editable name, output inversion and auto-off after X seconds.
- Inputs tab: real-time state, name, type (push-button or contact), debounce and double/triple-press window.
- Triggers tab: 'event → action' rules. Source: an input or output and its event (single, double, triple, long press, on, brightness change...). Action: one or more URLs, local or external. Use it to link a push-button to an output, fire scenes or notify another system.

INTEGRATION

- KNX: per relay, a control object and a state object, DPT 1.001. Group addresses per channel in the Output tab. CSV and .knxproj export for ETS.
- KNX routing mode (multicast 224.0.23.12:3671) by default; tunnelling by entering the gateway IP. Physical address in the Knx-IP tab.
- Matter: QR code on the device's /matter page. Add from Apple Home, Google Home or Alexa like any Matter accessory (same local network).
- Savant, Crestron Home, RTI, Vantage and URC: request the driver or profile for this model from UP&SYSTEMS.

FIRMWARE UPDATE

- Settings → System → Firmware Update. Check update looks online for a new version (Stable or Beta channel) and installs it. A .bin file can also be uploaded.
- Do not disconnect the device during the update. It restarts by itself when done.

STATUS LED

Magenta	slow	Bootng, or access point active
Cyan	fast	Searching for network
Blue	slow	Connected (WiFi or cable)
Red	3 blinks + pause	No network connection
White	steady	Restarting
White	medium	Identify mode (60 s)
Yellow	medium / fast	Button held 1-3 s
Red	very fast	Button held 4-5 s: about to factory reset

BUTTON

1 short click	Configurable local action
Triple click	Turns the configuration access point on / off
Hold 3 s	Restart (nothing is erased)
Hold 5 s	Factory reset (erases all configuration)

INTERFACE TABS

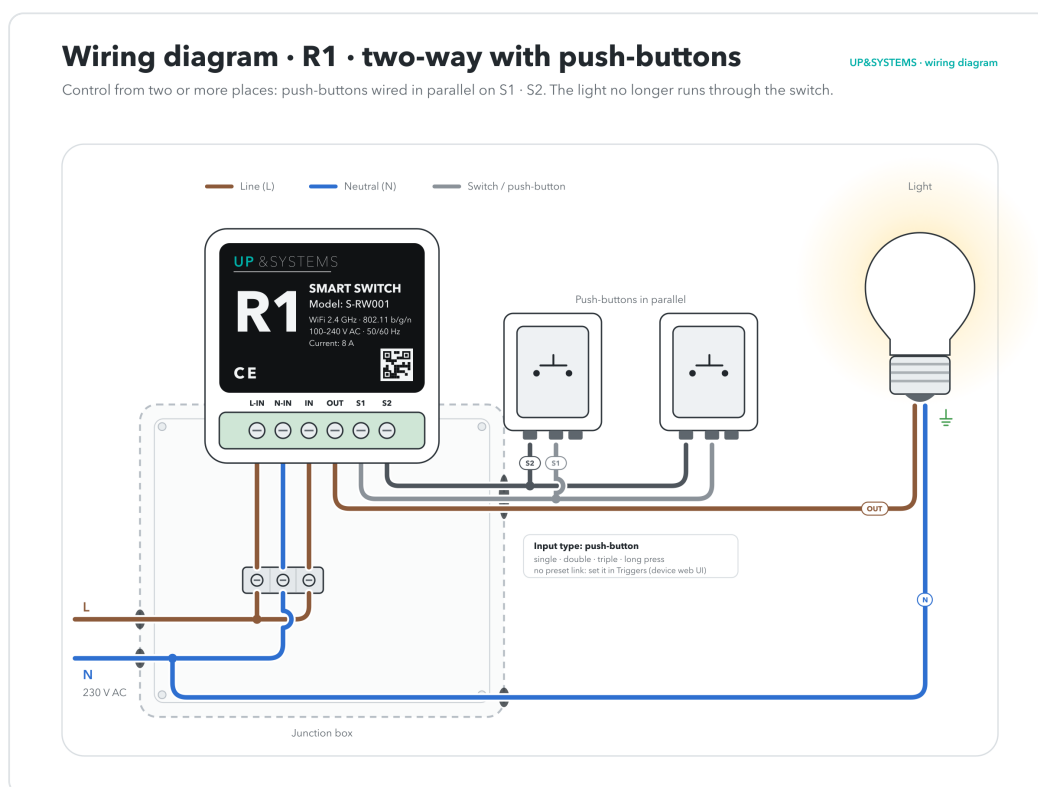
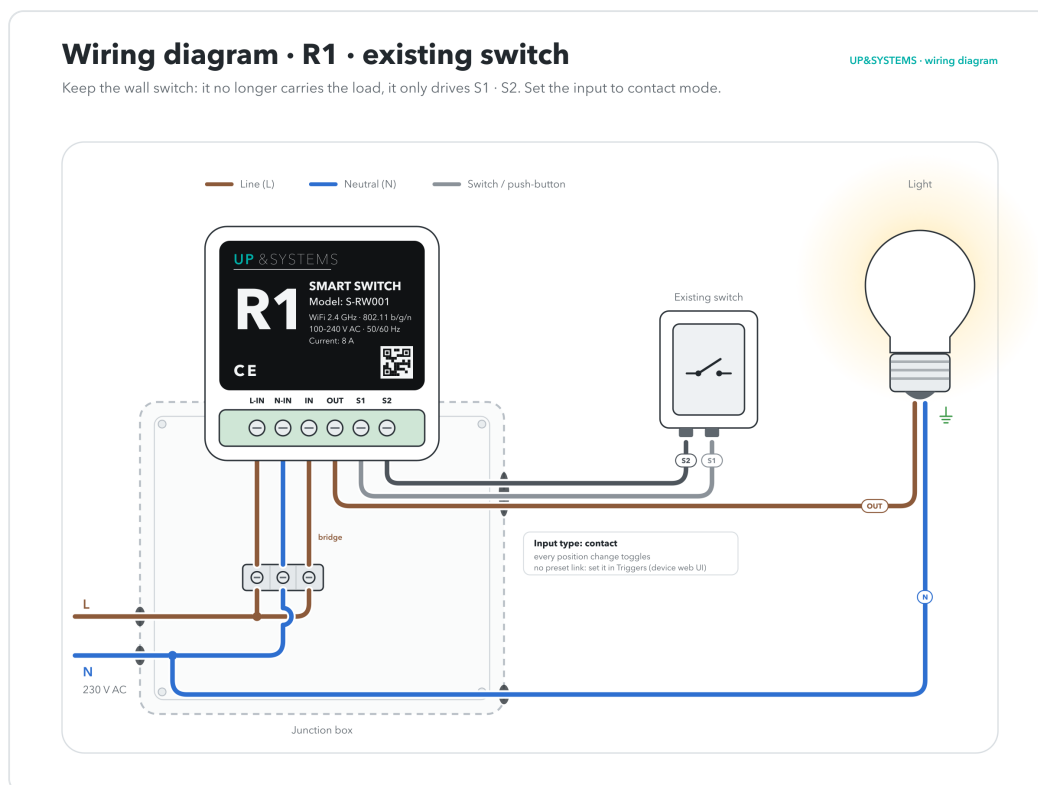
Dashboard	Device status, connectivity, version, KNX and Modbus
Output	Control and name the outputs
Inputs	View and configure the inputs
Triggers	Automations: when X happens, do Y
Monitor	Live log for diagnostics
Knx-IP · Modbus	Protocol configuration
Settings	User and password, network, name, restart, update, configuration backup

TROUBLESHOOTING

No LED, nothing powers up	Check voltage on L and N.
LED steady red	No network. Configure WiFi in Settings → Network. 2.4 GHz networks only.
UP-XXXXX network not visible	Triple-click the button. It switches off after 10 minutes.
Forgotten password	Hold the button 5 seconds until the LED blinks red very fast: factory reset.
A relay works inverted	Enable Invert on its output card.

Wiring cases 1-2 / 8

Same module and same label in every case. The IN → OUT contact is voltage-free: supply and load can be different circuits. Input S1 · S2 is fully supported at 230 V AC; at 12-24 V DC it is beta. No input is linked by default: create the links in Triggers (device web UI).

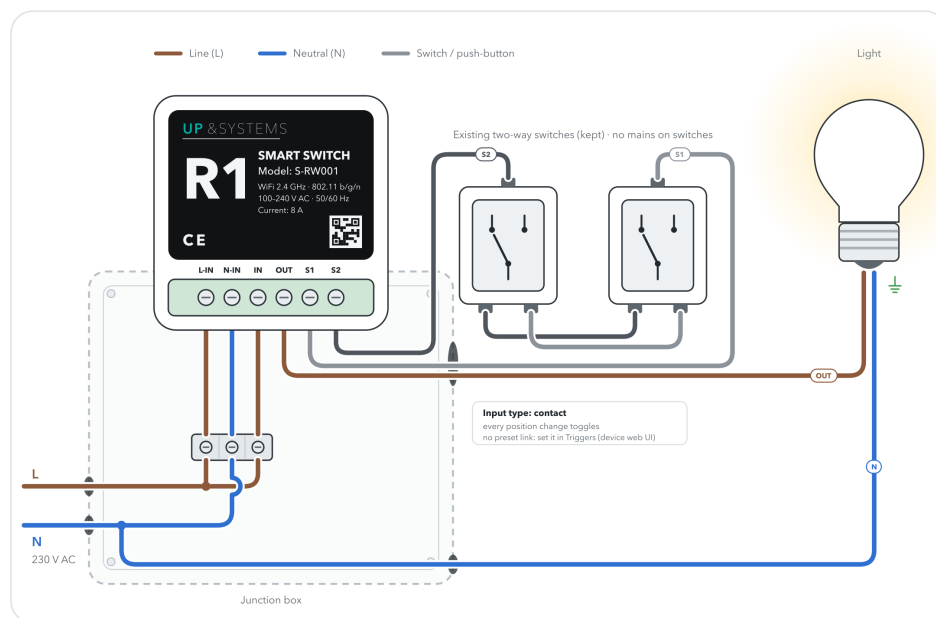


Wiring cases 3-4 / 8

Wiring diagram · R1 · existing two-way switches

UP&SYSTEMS · wiring diagram

Keep the two-way circuit: the switch commons connect to S1 · S2 as a contact. Every position change toggles the light.

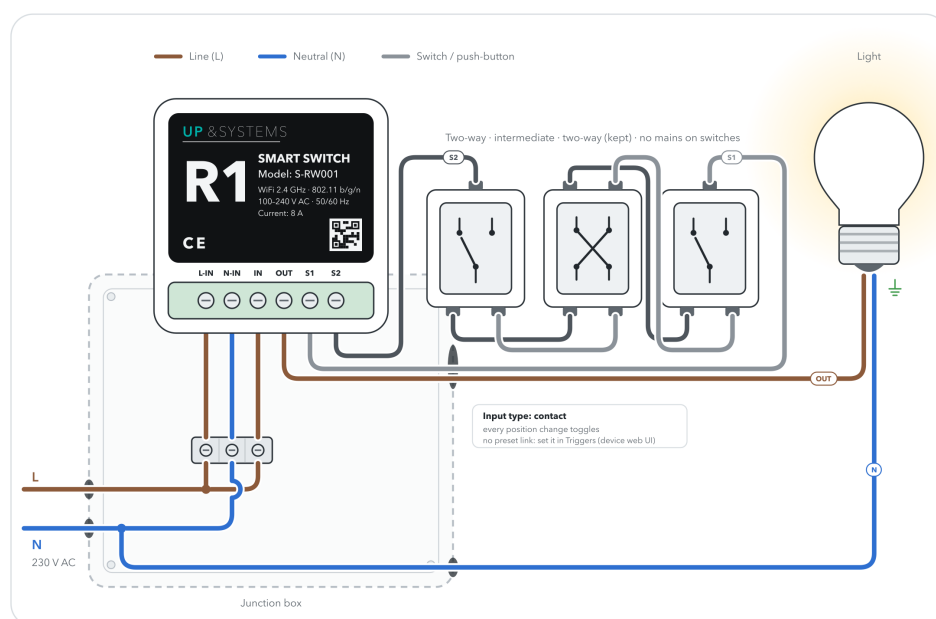


3. Existing two-way switches, kept

Wiring diagram · R1 · existing intermediate switching

UP&SYSTEMS · wiring diagram

Three or more places with two-way and intermediate switches: keep them and connect the circuit to S1 · S2 as a contact.



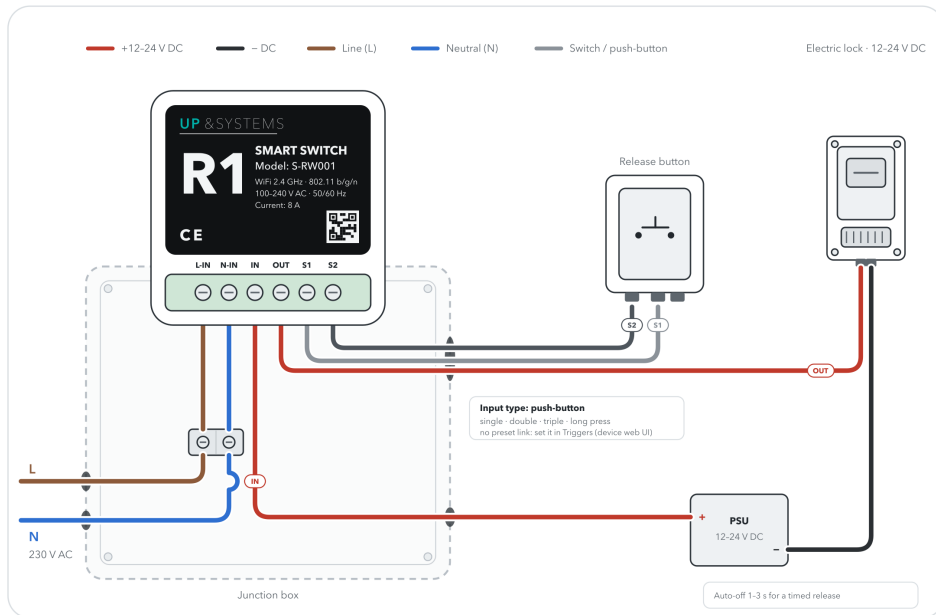
4. Intermediate switching: three control points

Wiring cases

Wiring diagram · R1 · AC supply, DC lock

UP&SYSTEMS · wiring diagram

Module at 230 V, all inputs working. The dry contact IN → OUT switches a 12-24 V DC lock fed by its own supply. Recommended.

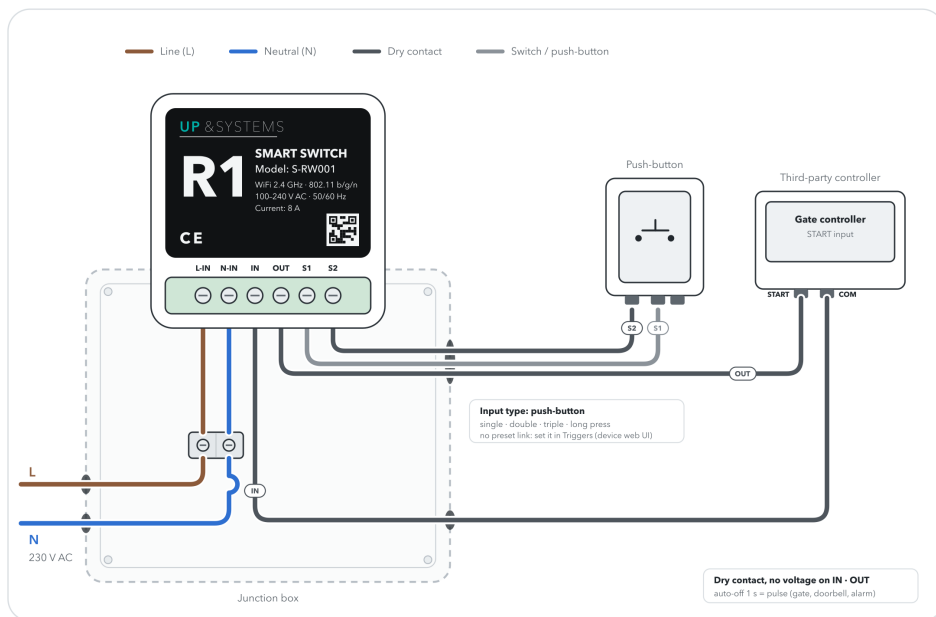


5. Module at 230 V, 12-24 V DC lock with its own supply (recommended)

Wiring diagram · R1 · dry contact

UP&SYSTEMS · wiring diagram

Module at 230 V. IN → OUT is a voltage-free contact wired to a controller input; use auto-off to send a pulse.



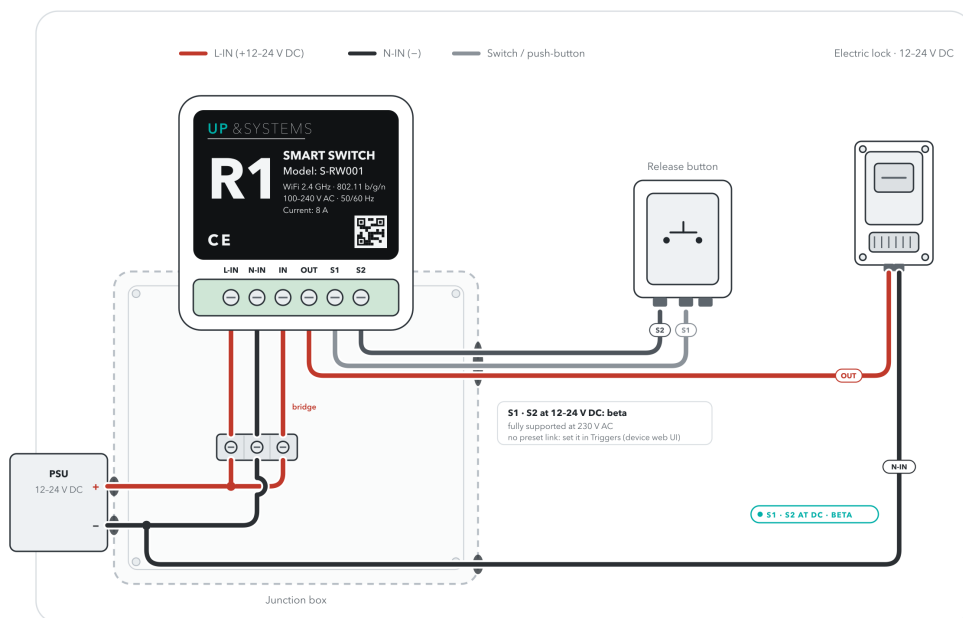
6. Dry contact: pulse to a gate motor, doorbell or alarm

Wiring cases 7-8 / 8

Wiring diagram · R1 · 12-24 V DC (optional)

UP&SYSTEMS · wiring diagram

Same module and label. DC supply on the same terminals: + to L-IN, – to N-IN. IN → OUT switches the lock; auto-off gives a timed release.

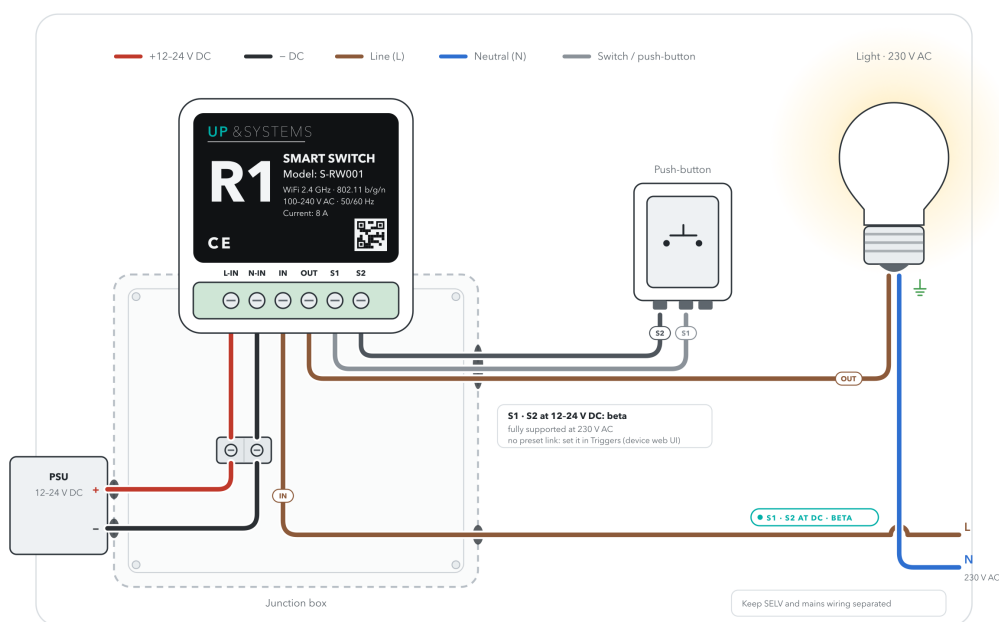


7. Optional 12-24 V DC supply, DC load. S1 · S2 beta at DC

Wiring diagram · R1 · DC supply, AC load

UP&SYSTEMS · wiring diagram

Module powered at 12-24 V DC (+ to L-IN, – to N-IN). The dry contact IN → OUT switches a 230 V AC load.



8. Optional 12-24 V DC supply, 230 V load. S1 · S2 beta at DC

