



R8

8-relay module · PoE

Eight independent circuits and eight push-buttons. Mains or PoE powered, Ethernet and WiFi.

8

RELAYS 16 A

8

INPUTS

PoE

802.3AF

5

PROTOCOLS

PART NUMBER **S-RE008**FAMILY **Relays**FIRMWARE **4.3.14**

Installation and user manual

SAFETY

- The AC IN terminal (PE · N · L), the outputs and the inputs in AC mode carry mains voltage. Installation must be carried out by qualified personnel with the power disconnected.
- DIN-rail mounting inside a closed panel or junction box.
- Inputs IN1-IN8: wire only voltage-free push-buttons or switches, never SELV circuits or other devices' inputs.

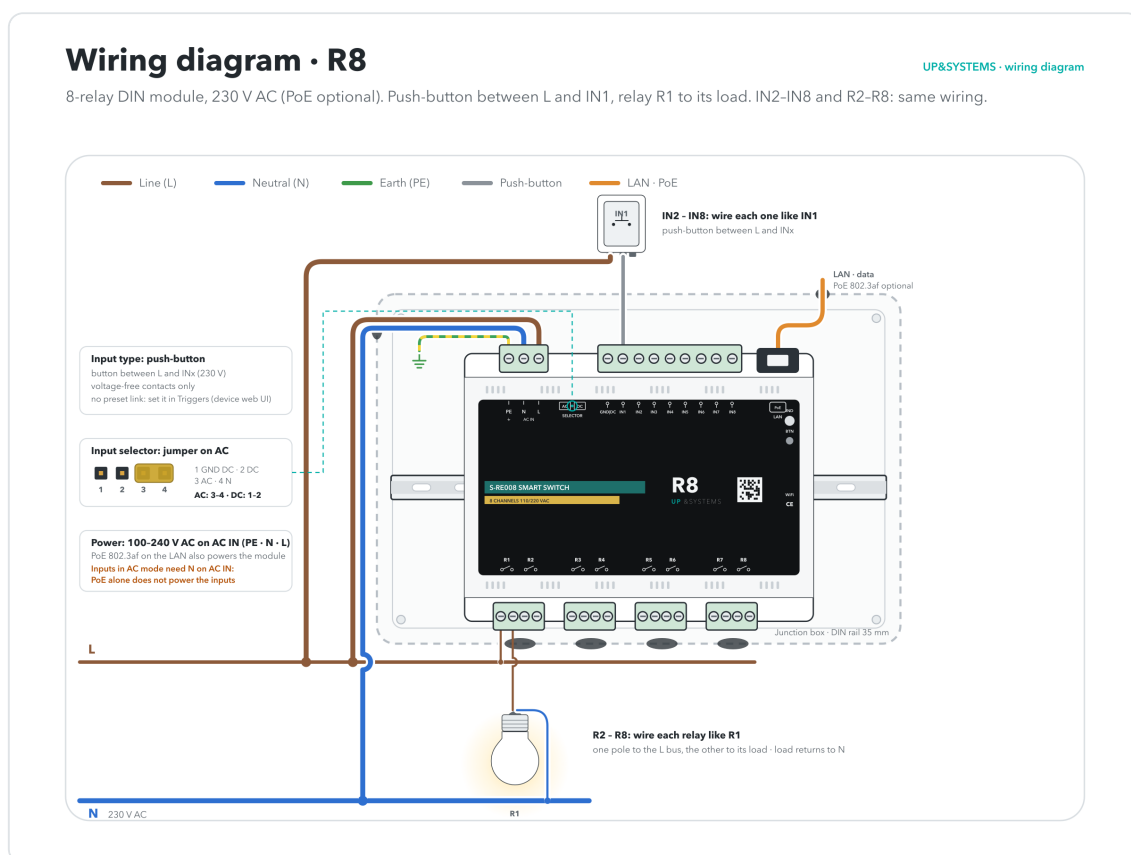
INSTALLATION

- Power: 100-240 VAC on the AC IN terminal (PE · N · L). Network: Ethernet cable to the LAN port; with a

PoE switch (802.3af) the module can also be powered through it, but the inputs still need N (AC mode) or – (DC mode).

- Inputs: push-button or switch between L and IN1–IN8 (AC mode, selector jumper on 3–4). N on AC IN is required even when the module is PoE powered. In DC mode (jumper 1–2): + of a 12–24 V supply → push-button → INx, – to GND DC (beta). Outputs: each relay is a voltage-free contact, one terminal to L and the other to the load; neutral goes straight to the load.
- Terminals, dimensions and position of each connection: see the technical drawing at the end of this document.

WIRING DIAGRAM · PUSH-BUTTON AND LOAD (DEFAULT): IN1 AND R1, OTHER CHANNELS WIRED THE SAME WAY



2 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 L 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 R8	Type in Inputs
Push-button (retractive switch)	Returns by itself when released (bell push or light push-button). Recommended.	Between INx and L	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 INx and L	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 L and one position to INx	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 INx and L	Contact; if NC, enable invert

FIRST START

1. Power up. The LED goes through magenta and cyan. With the network cable connected it settles on blue.
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. Not needed when using the network cable.
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.
- Modbus TCP (port 502, ID 1): relays in coils 1...n (read/write), inputs in discrete inputs 1...n, state in input registers 11+ (relays) and 21+ (inputs), uptime/temperature/heap in 50-53.
- 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	Booting, 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 AC IN (PE · N · L) or that the switch really delivers PoE 802.3af.
LED steady red	No network. Join the access point and configure WiFi (2.4 GHz only), or connect the cable.
UP-XXXXXX 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.

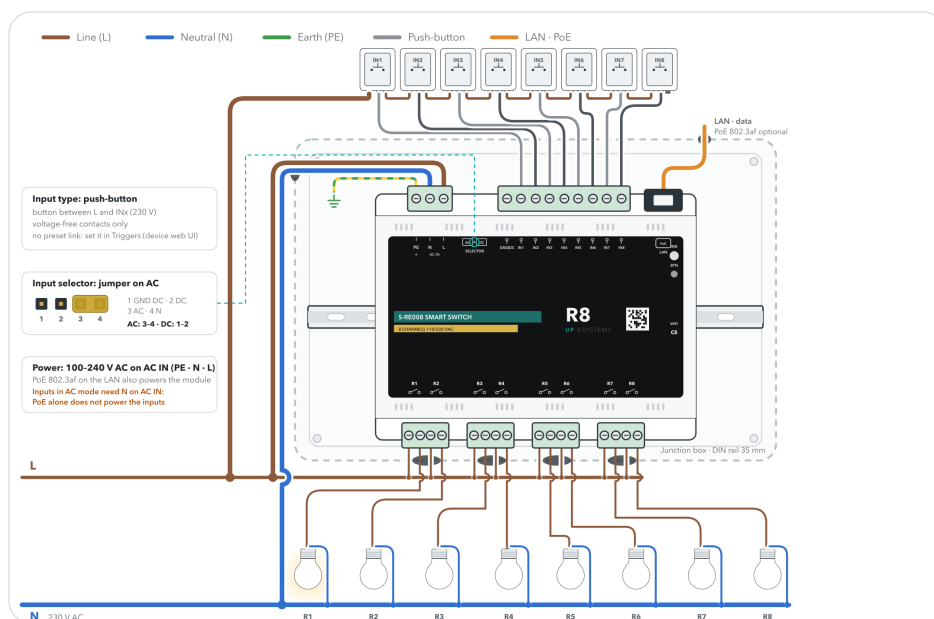
Wiring cases 1-2 / 2

Same module and same label in every case. Main supply 230 V on AC IN (PE · N · L); PoE powers the module but not the inputs. The relays are voltage-free contacts: AC or DC circuit per relay. Inputs fully supported in AC mode; DC mode is beta. No input is linked by default: create the links in Triggers (device web UI).

Wiring diagram · R8 · all channels

UP&SYSTEMS · wiring diagram

Complete example: eight push-buttons on IN1-IN8 (AC mode) and eight loads on R1-R8. Mains 230 V on AC IN, PoE optional.

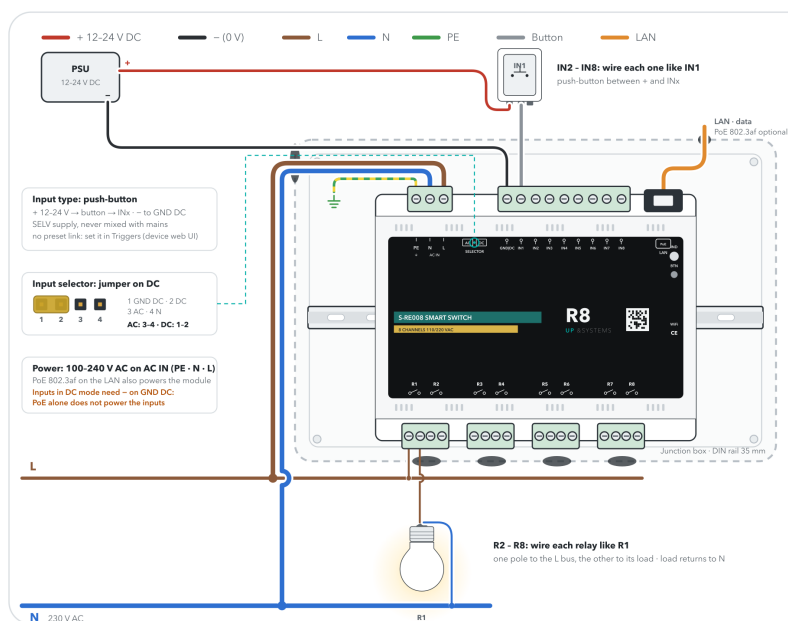


1. All channels: eight push-buttons and eight loads

Wiring diagram · R8 · DC inputs

UP&SYSTEMS · wiring diagram

Input selector on DC: a 12-24 V DC supply feeds the push-buttons; – to GND DC. Mains supply and loads unchanged.



2. Inputs in DC mode: jumper 1-2, 12-24 V supply for the push-buttons (beta)

