



RF-Router-UP

Radio Router

Technical specifications and installation instructions

Item number 60531



elsner

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1. Description

The **RF-Router-UP** routes the radio signals from 16 radio clients to the WS1 and WS1000 Color/Style controls. As a result, the range of the radio signal is increased.

Functions:

- Bidirectional routing of the radio signal
- For up to 16 radio clients (devices with radio protocol Elsner RF)
- For controllers WS1 Color, WS1 Style, WS1000 Color, (KNX) WS1000 Style (Software 1.708 and higher)

1.0.1. Safety advice



WARNING!

Risk of injury caused by components moved automatically!

If the wireless connection between the control unit and the wireless actuator is interrupted, connected devices can no longer be operated.

- For that reason do not connect drives to the wireless actuator which could be hazardous to human life!

1.1. Deliverables

- Radio Router

1.2. Technical specifications

Assembly	Installation
Protection category	IP 20
Dimensions	approx. 38 x 47 x 29 (W x H x D, mm)
Weight	approx. 60 g
Ambient temperature	Operation -20...+70 °C, storage -55...+90°C
Ambient humidity	max. 95% RH, avoid condensation
Operating voltage	230 V AC
Frequency range	868.0...868.6 MHz
Transmission power	max. 25 mW

The product is compliant with the provisions of EU guidelines.

2. Installation and commissioning



Installation, testing, operational start-up and troubleshooting should only be performed by a qualified electrician.

**DANGER!****Risk to life from live voltage (mains voltage)!**

- Inspect the device for damage before installation. Only put undamaged devices into operation.
- Comply with the locally applicable directives, regulations and provisions for electrical installation.
- Immediately take the device or system out of service and secure it against unintentional switch-on if risk-free operation is no longer guaranteed.

Use the device exclusively for building automation and observe the operating instructions. Improper use, modifications to the device or failure to observe the operating instructions will invalidate any warranty or guarantee claims.

Operate the device only as a fixed-site installation, i.e. only in assembled condition and after conclusion of all installation and operational start-up tasks, and only in the surroundings designated for it.

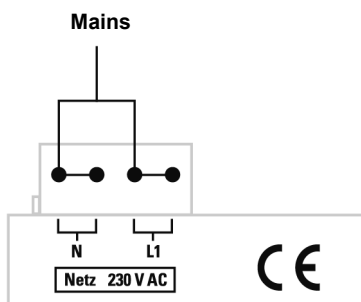
Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

2.1. Notes on wireless equipment

When planning facilities with devices that communicate via radio, adequate radio reception must be guaranteed. The range of wireless control will be limited by legal regulation and structural circumstances. Avoid sources of interference and obstacles between receiver and transmitter, that could disturb the wireless communication. Those would be for example:

- Walls and ceilings (especially concrete and solar protection glazing).
- Metal surfaces next to the wireless participants (e. g. aluminium construction of a conservatory).
- Other wireless devices and powerful local transmitters (e.g. wireless headphones), which transmit on the same frequency. Please maintain a minimum distance of 30 cm between wireless transmitters for that reason.

2.2. Connection

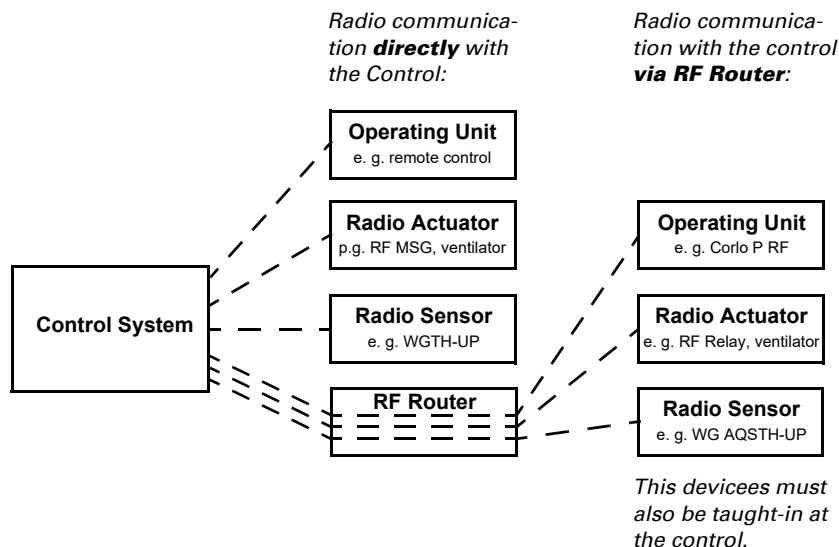


The **RF-Router-UP** only needs a mains connection.

The **Radio-Router-UP** is taught-in for the control like a radio actuator.

In the menu System > Installation > Radio connection > RF Router > Status other radio clients that have already been taught-in are assigned to the router. Their radio signal is then routed through the **RF-Router-UP** if the transmission path is too long for a direct connection.

2.2.1. Radio communication schema



Radio actuators (ventilators, relays, motor control units ...) can only be operated with the remote control Remo 8 *via the control*. They can *not be additionally* switched directly with the remote control.

2.3. Establishing a wireless connection

If in the system there are several radio clients operating on one mains line, it is better to teach in every radio client separately *before* installation.

1. Set the control unit to the teach-in mode (observe the corresponding manual/data sheet).
2. Activate the radio device voltage supply. The device teaches itself in for the control unit within 3 seconds after the mains voltage is applied. Only one radio client can be recognised at a time.
3. Observe the response from the control system ("device taught-in").

2.4. Notes on mounting and commissioning

Device must not be exposed to water (rain). This could result in the electronic being damaged. A relative air humidity of 95% must not be exceeded. Avoid bedewing.

3. Disposal

Observe legal regulations and do not dispose of with household waste!

4. Conformity

The radio equipment type **RF-Router-UP** complies with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the internet address <https://www.elsner-elektronik.de/en/rf-router.html>