



# RF Relay N

## Wireless Power Outlet

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### Technical Specifications and Installation Instructions

Item number 60530



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# 1. Product description

The **RF Relay N** is power outlet that can be switched via radio. It can be used with the WS1 or WS1000 Color/Style Control Systems or the Solexa II radio system or directly with Elsner Elektronik radio operating devices (Remo 8/pro Remote Control, RF-B2-UP Push Button Interface, Corlo P RF Solar Radio Push Button). Lights or pond pumps are examples for devices that can be run at the radio power outlet.

The adapter design allows for use of the **switchable power outlet RF Relay N** by anyone without having to contact an electrician.

## Functions:

- Radio power outlet, to be plugged to a 230 V mains power outlet (CEE 7/4)
- Reception of the control signal via radio
- Suitable for: WS1 Color, WS1 Style, WS1000 Color, WS1000 Style, KNX WS1000 Style (as of software version 1.20), Solexa II, Remo 8 (as of version 0.1), Remo pro, RF-B2-UP, Corlo P RF.

## 1.0.1. Safety advice



### WARNING!

#### Risk of injury caused by components moved automatically!

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

- For that reason do not connect drives to the radio power outlet which could be hazardous to human life!

## 1.0.2. Scope of supply

- Switchable radio power outlet (adapter) CEE 7/4

## 1.1. Technical specifications

Housing	Plastic material, black
Protection category	IP 20
Dimensions	ca. 54 x 86 x 80 (W x H x D, mm)
Weight	approx. 175 g
Ambient temperature	Operation -20...+50°C, Storage -55...+70°C
Ambient humidity	max. 95% R.H., avoid bedewing
Operating voltage	230 V AC (safety plug CEE 7/4 plug)
Output	CEE 7/4 socket, max. 10 A / 230 V AC
Radio frequency	868.2 MHz

The product conforms with the provisions of EU guidelines.

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## 2. Installation and commissioning

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### 2.1. Installation notes

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

There are unprotected live components within the device.

- VDE regulations and national regulations are to be followed.
- Do not open the device.
- Do not use the device if it is damaged.
- Take the device or system out of service and secure it against unintentional use, if it can be assumed, that risk-free operation is no longer guaranteed.

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The device is only to be used for its intended purpose. Any improper modification or failure to follow the operating instructions voids any and all warranty and guarantee claims.

After unpacking the device, check it immediately for possible mechanical damage. If it has been damaged in transport, inform the supplier immediately.

The device may only be used as a fixed-site installation; that means only when assembled 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.

### 2.2. Notes on wireless equipment

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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 (868,2 MHz). Please maintain a minimum distance of 30 cm between wireless transmitters for that reason.

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## 2.3. Connection

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The radio module is plugged into a mains power outlet (CEE 7/4) and the consumer load is connected to the module with its safety plug. The mains voltage has to be 230 V AC / 50 Hz.



**Install and use only in dry interior places.** Avoid bedewing.

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**Do not expose permanently to direct sunlight** to avoid too heavy warming. The housing is not UV resistant.

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## 2.4. Establishing a wireless connection

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

1. Put the control unit into teaching mode (observe the corresponding manual/data sheet).
2. Plug in the RF Relay N. The device learns a connection to the control unit on its own 10 seconds after the mains voltage is applied. Only one radio client can be recognised at a time.

Observe the response from the control system ("device taught").

3. The procedure for assigning radio clients to the router is described in the operating manual for the controller.

## 2.5. Notes on mounting and commissioning

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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.