EN

RF-MSG and RF-MSG-PF

Wireless Motor Control Units

Technical Specifications and Installation Instructions

Item numbers 60532, 60533

elsner elektronik

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1. Product description

RF-MSG and RF-MSG-PF are radio controlled motor control units for WS1 and WS1000 Color control systems or the Solexa II radio system. A drive (e.g. shade or window) can be connected to the control units. Drives connected to the wireless motor control units can also be operated directly with the Remo 8/pro radio remote control (without an additional control unit).

Functions:

- 1 connection for drive
- RF-MSG: with potential
- RF-MSG-PF: potential-free/dry contact
- 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, Push Button Interface RF-B2-UP and Push Button 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 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!

The dry contact is suitable for functional extra-low voltage but not for switching of protected extra-low voltage!

1.1. Technical specifications

Mounting	Flush-mounting
Protection category	IP 20
Dimensions	ca. 38 x 47 x 29 (W x H x D, mm)
Weight	approx. 70 g
Ambient temperature	Operation -20…+70°C, Storage -55…+90°C
Operating voltage	230 V AC
Output **RF-MSG**	1 × drive 230 V (PE/N/down/up), max. 4 A / 230 V capacity
Output **RF-MSG-PF**	1 × drive (up/down/L'), dry contact, max. 4 A / 230 V capacity
Radio frequency	868.2 MHz

The product conforms with the provisions of EU guidelines.

2. Installation and commissioning

2.1. Installation notes

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

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.
•Ensure that all lines to be assembled are free of voltage and take precautions against accidental switching on.
•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.

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

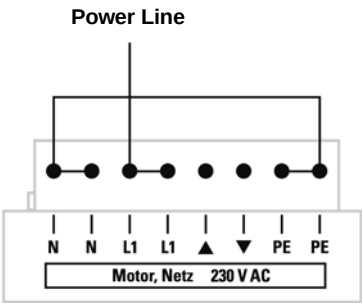
When planning facilities with devices that communicate via radio, adequate radio reception must be guaranteed. The range of wireless control will be limited by legal regulation and structural circumstances. Avoid sources of interference and obstacles between receiver and transmitter, that could disturb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

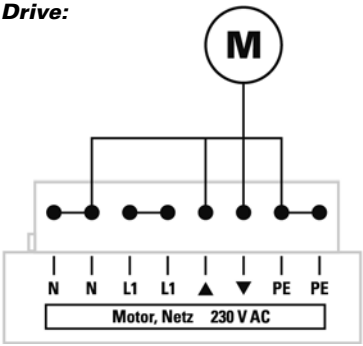
2.3. Wiring

2.3.1. RF-MSG

Power line 230 V AC:

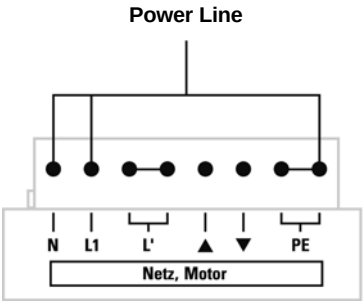


Drive:

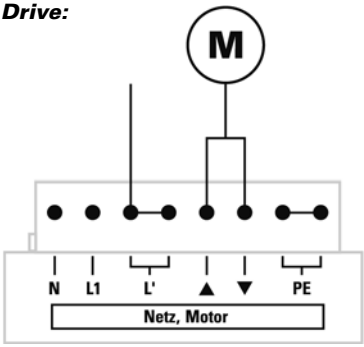


2.3.2. RF-MSG-PF

Power line 230 V AC:



Drive:



2.4. 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").

2.5. 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.