

## VRS Transmitter FM 1C 868



Art.-no.:  
01580086

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1-channel VRS radio transmitter as flush-mounted installation.

## Installation and Operating Instructions

### Short description

- 1-channel radio transmitter for controlling VRS radio receivers
- Unidirectional protocol
- Operation via existing switches or push-buttons

### Functional description

The flush-mounted radio transmitter is used to control VRS radio receivers. For further information, please refer to the operating instructions of the respective radio receiver.

### Safety precautions



#### WARNING!

#### Important safety information.

It is important for the safety of persons to follow and keep these instructions.

- Contact a professional electrician to install the control system, because the control system requires a power supply of 230VAC, 50 Hz.
- Check the control system for signs of mechanical damage after unpacking. If you notice any shipping damage, do not start up the control system and notify your supplier immediately.
- The control system should only be used for the purpose specified by the manufacturer (refer to the operating instructions). Any changes or modifications thereof are not permissible and will result in loss of all warranty claims.
- If the control units or the connected sunshade cannot be operated without presenting a hazard, it must be switched off and prevented from being switched on unintentionally.

### Assembly and installation



#### WARNING!

#### Risk of injury due to improper installation and commissioning.

Improper installation and commissioning may lead to personal injury or property damage.

Therefore:

- When connecting the device, observe the currently valid VDE standards (in particular DIN VDE 0100/0700), your local power company's regulations and the current accident prevention regulations.
- Connect the control in accordance with the wiring diagram.

#### Notes for professional electricians

1. Switch off the control power supply.
2. Connect the cables in accordance with the wiring diagram.
3. Mount the receiver on a suitable mounting location (see chapter "Instructions for radio receivers").
4. Switch on the power supply.
5. After connecting the receiver is in operating mode.

### Technical data

Article	VRS Transmitter FM 1C 868
Art.-no.:	01580086
Radio frequency:	868.3 MHz
Transmitter power:	0.12 mW
Power supply:	230VAC, 50 Hz
Rated power (maximum):	0.43 W
Operating temperature:	-20 °C (-4 °F) to +60 °C (140 °F)
Protection degree:	IP 20
Dimensions ( L x W x D):	48 x 48 x 25 mm
Colour:	black

### Declaration of conformity



These products are conform to the basic requirements of the European Radio Equipment Directive 2014/53/EU. The Declaration of Conformity concerning these products are available on request.

### Startup

- Disconnect the power circuit and mount the transmitter in a commercially available installation box.



#### CAUTION!

Make sure there is no interference with the wireless connection. Do not mount the device in a distribution box, in metal casings, in direct proximity to large metal objects, on the floor or close to it.

- If you want to connect a switch, set the enclosed jumper between L and F. By default, the transmitter is delivered for the connection of a push-button; the jumper is not set.
- Connect the supply cables and the switch or pushbutton according to the connection diagrams while the supply power is cut.
- Place the cover on the installation box, then switch on the supply voltage again.

### Disposal of waste

The disposal of electrical equipment and batteries in household waste is strictly forbidden.



The symbol (dustbin crossed out, in line with WEEE Appendix IX) indicates separate collection of electrical and electronic products in EU countries. Do not dispose of the device or battery in your household waste. Ask your town or local council about the return and collection systems available in your area to dispose of this product.

**Wiring diagrams and operating modes**

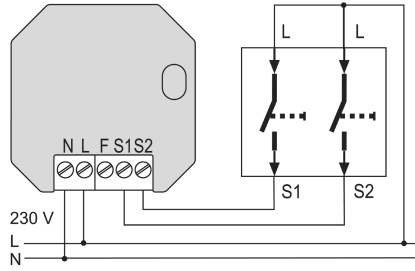
A total of 3 operating modes of the radio transmitter are available for connection and programming. These are defined by setting a jumper and must be selected according to the device to be controlled.

**Pushbutton mode (Fig. 1)**

No jumper between L + F.

The transmitter sends as long as the button is pressed, but not longer than 36 seconds.

**PUSHBUTTON** (no jumper between L+F)



**Suitable for:**

Sun protection motors for roller blind, roller shutter, screen, roman shade, interior and exterior blinds applications

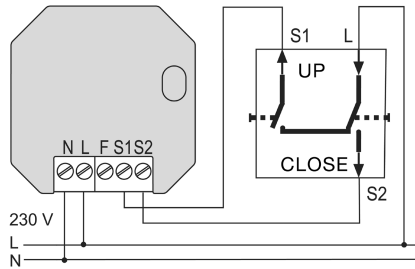
**Shutter control mode (Fig. 2)**

No jumper between L + F.

The transmitter sends as long as the button is pressed, but not longer than 36 seconds.

**ATTENTION!**  
The connection of pushbuttons is recommended only for modes with 2-button-operation!

**SHUTTER BUTTON** (no jumper between L+F)



**Suitable for:**

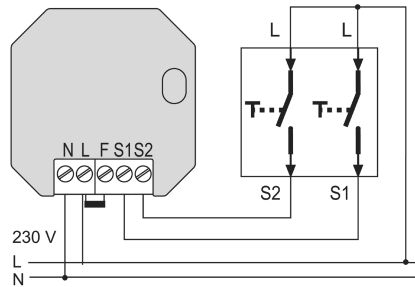
Sun protection motors for roller blind, roller shutter, screen, roman shade, interior and exterior blinds applications

**Switch mode (Fig. 3)**

Jumper between L + F set.

The transmitter sends a switching pulse of approx. 0.5 seconds when the status of the switch changes.

**SWITCH MODE** (jumper between L+F set)



**Suitable for:**

Lighting

**Instructions for radio receivers**

**ATTENTION!**  
Radio transmission is not suitable for safety operations, such as emergency-stop, emergency call or warning signals.

Signals are transmitted across the Europe-wide approved 868 MHz frequency band. The radio transmission range largely depends on the constructional circumstances of the building. If other adjacent radio devices are simultaneously sending signals, mutual interferences cannot be debared. Such interferences can also affect individual units of a group of receivers.

Observing the following instructions will minimize these interferences:

- Avoid to mount radio receivers onto or adjacent to metal surfaces.
- Maintain minimum 50 cm clearance to consumer loads, such as microwave ovens or TV sets.
- Keep a minimum clearance of 50 cm between each mounted radio receiver.
- Keep a minimum clearance of 50 cm between a radio receiver and a radio transmitter.

If a radio-transmitted command cannot be clearly detected, the command execution will be suppressed by means of an integrated automatic safety function. The command must then be issued again.

**Programming receiver**

In programming mode you can transmit the codes of your transmitter buttons to the receiver. Only possible in push button mode! Below is the procedure for a Vestaline/Lovoline motor.

- Switch on the operating voltage of the motor. The programming mode is now active for 60 seconds.
- Press the PROG. button on the transmitter. The LED flashes.
- Briefly press the UP button within the next 5 seconds. Motor gives short feedback (two short UP/DOWN movements). Programming was successful.
- To move the motor in UP or DOWN direction, please keep the respective button pressed (push button mode). The motor moves with a delay if no limit positions have been set yet.

**IMPORTANT!**  
Removing settings of a programmed radio transmitter is only possible by resetting the radio receiver. Please refer to the operating instructions of the respective device.

**Service/Contact**

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