

EWFS Haustechnik FZL

Operating and installation instructions



Der SonnenLightManager

Valid from
1 June 2022
Keep for future use.

General information



Fig. 1 EWFS Haustechnik FZL

The EWFS Haustechnik FZL radio receiver is an electronic control device for the direct actuation of 230 V AC sun shading drives. It can receive move commands from EWFS-compatible transmitters. The motor and receiver are supplied through the same supply line. The receiver can be operated by means of an overriding sun shading control system. Because of its compact design, the receiver can be installed in a flush-mounted junction box.

Intended use

The EWFS Haustechnik FZL radio receiver was developed to control sun shading systems. The approval of the manufacturer must be obtained for uses outside of the purposes listed in these instructions.

Safety instructions



WARNING

The electrical installation (assembly)/dismantling must be performed by a certified electrician in accordance with the electrical installation regulations published by the Association of German Electrical Engineers (VDE 0100) or the standards and regulations of the country in which the device is being installed. The electrician must observe the installation instructions included with the electrical device.



WARNING

If hazard-free operation cannot be assumed, the device may not be commissioned or must be decommissioned. This assumption is justified if

- ▶ the housing or the supply lines show signs of damage
- ▶ the device is no longer working.



CAUTION

Never activate buttons on your transmitter arbitrarily without visual contact to the sun shading product. Children may not play with this product - Remote controls or transmitters must not get into the hands of children!

The range of radio controls is restricted by legal regulations for radio systems and through structural factors. Adequate radio reception must be ensured when planning the project. This applies especially if the radio signal must penetrate through walls and ceilings. The control unit should not be installed in the immediate vicinity of metal components (steel beams, steel-reinforced concrete, fire door).

- Therefore, check that the receiver is functioning properly before the final installation. Strong local transmitter systems (e.g. baby monitors or neighbouring transmitters) can interfere with the reception.

Function

RTL (radio time mode):

This mode is useful for slat products: By briefly activating (approx. 0.6 seconds) the "Up" or "Down" button on the transmitter, you can adjust the sun shading product in small steps. This function can be used with slat products to tilt the slats. If the button continues to be activated, the radio time mode switches to the lock mode. The button may then be released. The sun shading system moves until the fixed run time of three minutes has expired. To release the lock and stop the motor, the button for the opposite direction of movement or the stop button must be pressed briefly.

Symbols used

When the receiver is delivered, it does not "know" any transmitters initially and first needs to learn to which transmitters it should respond. We refer to this process as "learning".

Explanation of symbols



Power-up: To learn, you must electrically isolate a receiver or a group of receivers, either at the in-line circuit breaker or at the associated plug-in connector, and then reconnect it again after approx. 5 seconds. (Power-up procedure). Always carry out a power-up procedure when you see the symbol of the circuit breaker.



The receiver is now in learn mode for approx. one minute. The learn button on the transmitter must be pushed within this period or the learning mode is closed. Push the learn button on your transmitter whenever you see the learn button symbol.



Wave: After the learn button on the transmitter is activated, the connected sun shading system carries out several movements. In these instructions, we use the adjacent symbol for waving. **Waving once:** Press the learn button on the transmitter, wait until the connected sun shading system moves and then release the button immediately.

Learning in the master channel

You can either learn in a 1-channel transmitter or one channel of an 8-channel transmitter in a receiver as the master channel. With an 8-channel transmitter, you only need to make sure that you first select the desired channel, as the following example shows:

How to learn channel 1 of an 8-channel hand-held transmitter into a receiver:



Place the receiver into learn mode: Perform the power-up procedure on the receiver.



Learn in the transmitter: Take the transmitter, select channel 1, push and hold the learn button, the sun shading waves once, release the button.

Result: You can now operate the receiver with channel 1 of the transmitter.

Forming a group

You would like to operate two external venetian blinds with an 8-channel hand-held transmitter (I) as follows:

- ▶ Channel 1 controls external venetian blind 1 (master channel)
- ▶ Channel 2 controls external venetian blind 2 (master channel)
- ▶ Channel 3 controls both external venetian blinds together (auxiliary channel)

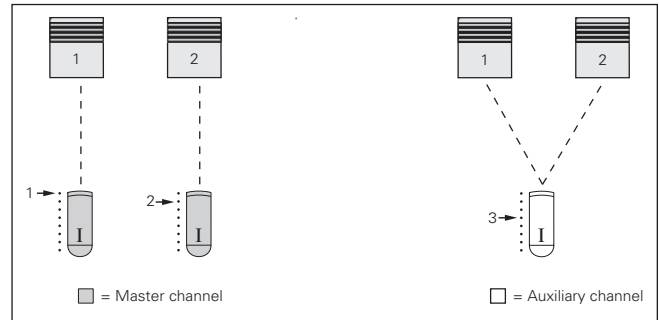


Fig. 2 Building a group

1st step: Learn in the master channel

One master channel must be learned into each receiver before you can form a group. As described in the section "Learning in the master channel", learn in channel 1 on receiver 1 as a master channel and channel 2 on receiver 2 as a master channel.

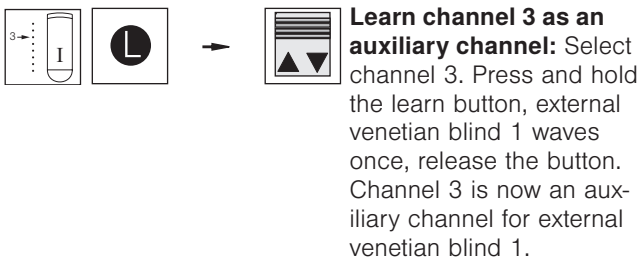


If this is not possible because the power-up procedure cannot be performed separately for the receivers, the master channels must be learned in by means of "patent learning". Information on this procedure can be found in the "application brochure" at <https://www.warema.com/media/866089.pdf>.

2nd step: Learn in the auxiliary channel

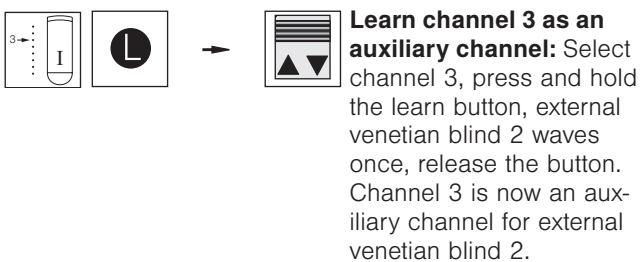
You can now operate the external venetian blinds separately, and each learned channel is a master channel in the respective receiver. If the learn button is pushed with this master channel, the learn mode can be started and an auxiliary channel learned into the respective receiver even without the power-up procedure. If the same auxiliary channel, e.g. channel 3, is now learned into each receiver, both external venetian blinds can later be operated as a group with channel 3 but they can still be operated separately via the master channels 1 and 2. The next step is to learn the auxiliary channels:

Learning channel 3 into external venetian blind 1



Result: External venetian blind 1 now can also be operated with channel 3.

Learning channel 3 into external venetian blind 2



Result: External venetian blind 2 now can also be operated with channel 3.

Deleting an auxiliary channel

You can delete all auxiliary channels learned into the receiver if you have committed an error and you want to start over again. Note the following example:

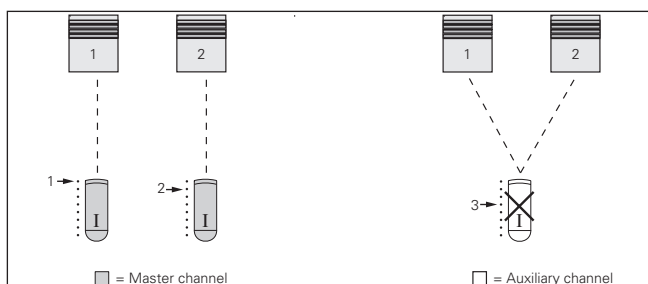
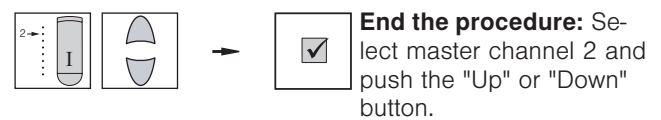
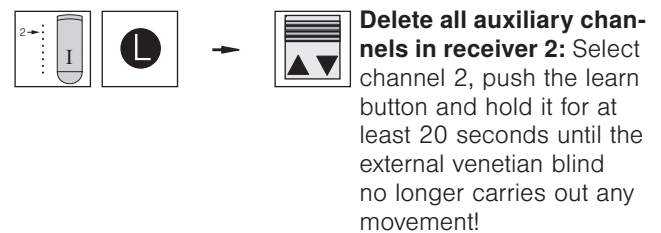
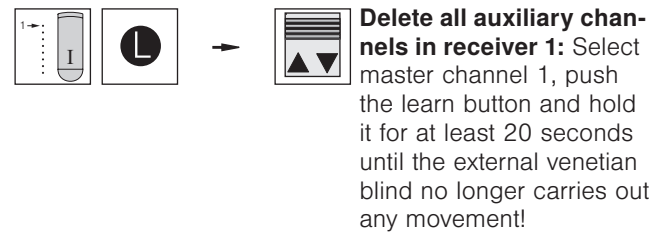


Fig. 3 Auxiliary channels in receiver 1 and 2 are to be deleted.

■ Carry out the following operation steps consecutively with the respective master channel:



Result: All auxiliary channels in receiver 1 and receiver 2 were deleted.

i Only one master channel and 15 auxiliary channels can be learned into each receiver. The master channel cannot be deleted but can only be overwritten with a new channel. The auxiliary channels are not deleted when you learn in a new master channel. The weather station can be learned in as an auxiliary channel.

Heartbeat function

When a weather station is learned into the device, the heartbeat function becomes active. The weather station cyclically sends a so-called "heartbeat pulse" to all receivers into which the weather station was learned. If the power supply of the weather station fails, for example, the station does not send a heartbeat. The receiver may also fail to receive a heartbeat pulse from a learned weather station when the installation situation is unfavourable. If a heartbeat signal does fail to arrive for 24 h, this is considered by the receiver to be a weather station failure and the sun shading system is raised for safety reasons. In this phase, the sun shading system cannot be operated as usual: When it is lowered manually, the movement is stopped automatically after approx. 5 seconds. Pressing the button again causes the same reaction. The sun shading system can be raised as usual. This is a safety function and not an error.



CAUTION

If you force the sun shading system to move down by repeatedly activating the DOWN button when the weather station has failed, the safety functions are not active. The sun shading system may become damaged (e.g. due to high winds).

Special functions

Manifold special functions are additionally possible in WAREMA EWFS. Should you wish further information, your specialist dealer will be pleased to give you the application brochure.

The "A", "B" and "C" function buttons

Function button "A" of the transmitter can be used to switched off the sun control temporarily if you additionally use the EWFS weather station in your system.

Temporary deactivation of the sun control:

- Press the "A" button of the transmitter and hold until the sun shading system stops moving. Release the button again. The sun control is now switched off for 12 hours. After this period, the sun control is reactivated again automatically.

Activate the sun control again:

- Press and hold the "A" button of the transmitter. Release the button again when the sun shading system waves. The sun control is active again. If the automatic system was already active, nothing changes.

The "A", "B" and "C" buttons of this transmitter have no function.


Installation

The receiver is designed for installation in a flush-mounted junction box 80 x 80 mm. Only lines used for the wiring of the receiver should be routed into this box. The unit is electrically connected according to the wiring diagram on the reverse. The lines are connected via spring terminals.

Electrical installation

An on-site overload current disconnecting and isolating switch to switch off the entire system must be provided.

Commissioning

You can find instruction videos on our YouTube channel  at:



<http://www.youtube.com/user/SonnenLichtManager/videos>

Complete the installation and apply the supply voltage. The device is operational.

Maintenance

There are no parts within the device that require maintenance.

Cleaning

Clean the housing with a soft, dry cloth. Do not use detergents, cleaning agents, solvents, abrasive substances or steam cleaners!

Liability

Failure to comply with the product information in these instructions and use of the device in a manner that contravenes its intended use and purpose may result in the manufacture refusing to honour warranty claims for product damage. In this case, liability for consequential harm to persons or damage to property will also be excluded. Follow also the instructions in the operating manual of your sun shading system. The automatic or manual operation of the sun shading system when iced over as well as using the sun shading system during severe weather may cause damage and must be prevented by the user by taking suitable precautions.

Obligations for the disposal of electrical devices




A marking with this symbol indicates the following obligations under the scope of legal regulations:

- The owner of this electrical device must dispose of it separately from unsorted municipal waste for further recycling.
- Used batteries and accumulators that are not enclosed in the old device, as well as lamps/bulbs that can be removed from the old device without breaking, must be disposed of separately.
- Distributors of electrical devices and disposal companies are obliged to take back the equipment free of charge.
- The owner must take it upon themselves to delete any personal data contained in the electrical device prior to disposal.

Troubleshooting

EWFS Haus-technik FZL	Help with malfunctions	
Type of mal-function	Possible cause	Remedy
Transmission LED of the transmitter does not light up	Battery inserted with wrong polarity or depleted	Insert batteries correctly, read the operating instructions, insert new batteries
Move commands of the transmitter are not executed	Transmitter has not been learned in	Learn the transmitter as described in the instructions
	The wrong channel was selected	Select the correct channel and then repeat the move command
	Interfering ambient influences	Reduce the transmitter-receiver distance
	Receiver is not supplied with line voltage	Switch on the power supply
Move commands are executed only sporadically	Interference through unrelated transmitters	Deactivate the external transmitter (e.g. Babyphone)
	There are reinforced concrete covers or walls located between the transmitter and receiver	Reduce the distance to the receiver
Sun shading system moves up automatically. The sun shading system stops after 5 seconds when moving DOWN.	Active heartbeat: No communication with a learned-in weather station for 24 h.	Check that the weather station is functioning correctly

Technical data

EWFS Haustechnik FZL	Min.	typ.	Max.	Unit
Supply 230 V AC				
Operating voltage	198	230	253	V AC
Current consumption	20		27	mA
Drive output				
Switching capacity at 230 V AC / $\cos\phi = 0.6$			700	VA
HF receiver				
Receive frequency ASK (OOK)		433.92		MHz
Operating range (environment without interference)		30		m
Ambient conditions				
Operating temperature	-20		60	°C
Storage temperature	-20		60	°C
Humidity (non-condensing)	10		85	%RH
Degree of soiling				2
Enclosure				
Dimensions in mm (WxHxD)	48.5 x 30 x 48.5			
Degree of protection/safety class	IP20/II			
Miscellaneous				
Conformity	 Available at www.warema.de/ce			
This device complies with the EMC directives for use in residential and commercial areas.				
WAREMA Renkhoff SE declares herewith that this radio system type EWFS Haustechnik FZL is in compliance with the guideline 2014/53/EU.				
Article numbers				
EWFS Haustechnik FZL	1002 625			
WAREMA Renkhoff SE Hans-Wilhelm-Renkhoff-Strasse 2 97828 Marktheidenfeld Germany				

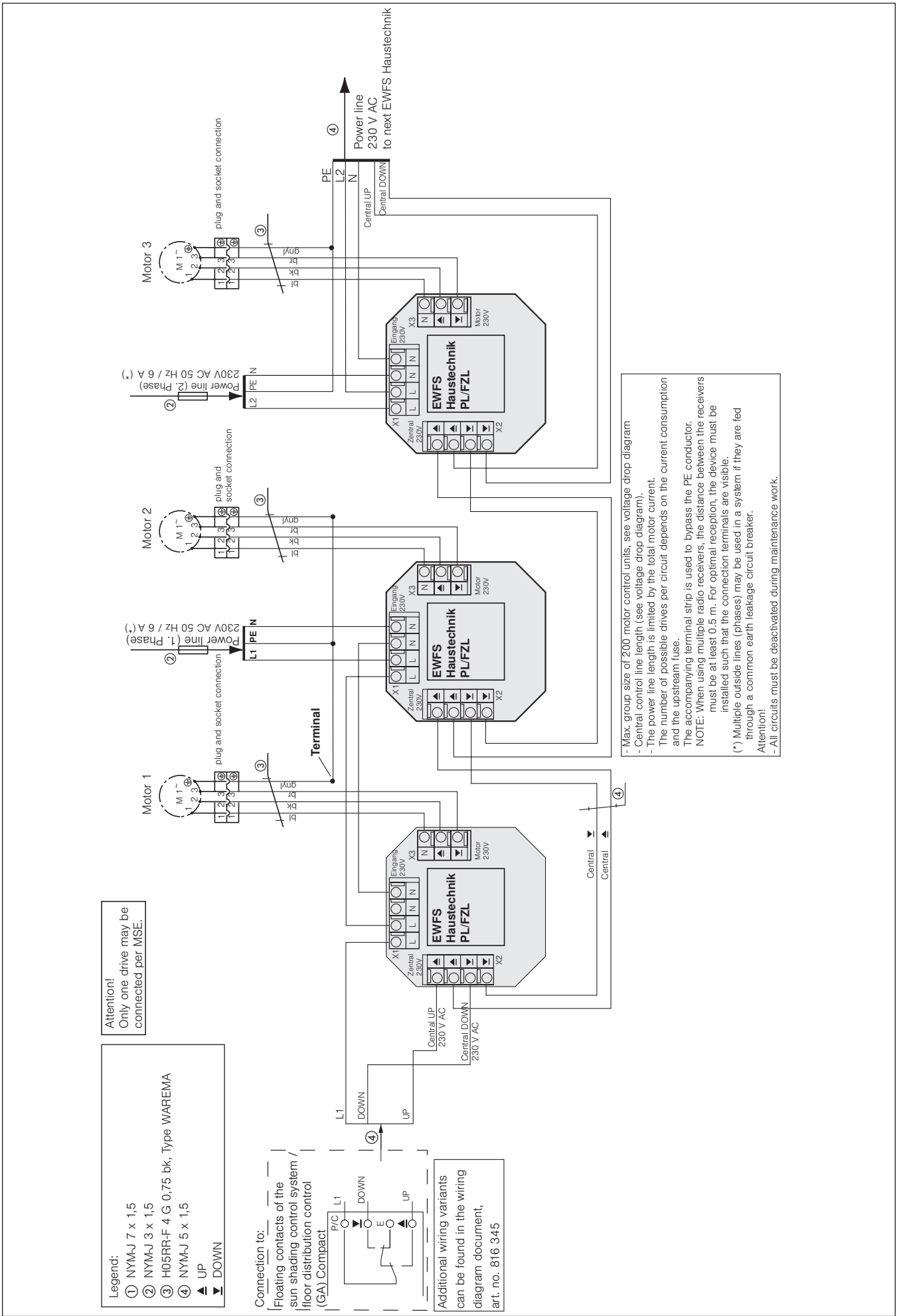


Fig. 4 Wiring diagram