

GEIGER-Funk

Sunshade controls

Blind Controller

for 230V drives

GFJ006

GFJ007

GFJ009

Installation and Operating Instructions

*for pre-coded
systems*

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1 Introduction

Purchasing the blind controller GFJ006/GFJ007/GFJ009 was a good decision. You have acquired a high-quality product from the house of Geiger.

This blind controller is operated only via radio commands.

The following operating methods are possible:

- Manual operation with manual radio transmitters and wall-mounted radio transmitters
- Automatic program with sensors for sun and wind
- Time-controlled functions via radio time switch
- Higher-order service functions (e.g. for window cleaning)

The following radio command assignments are possible and apply to all operating modes:

- Individual control
- Group control (any number of in-range receivers)
- Central control (any number of in-range receivers)

2 Safety Instructions

- The blind controller GFJ006/GFJ007/GFJ009 requires a supply voltage of 230V~, 50Hz for operation. Please note that only a skilled electrician (as defined by VDE0100) may install the controller.
- The controller is only to be used for its intended purpose as described under Section 3 of the operating instructions. Changes or modifications to the controller void any rights to claims under the guarantee.
- After unpacking the controller, check it right away for any damage. If it is damaged, the unit may absolutely not be put into operation. Shipping damage is to be reported to the supplier immediately.
- When it can be presumed that the controller does not operate faultlessly, it is to be immediately taken out of service and secured against inadvertent use. This can be assumed if the housing or the mains / motor cables are damaged or if the unit is no longer working.
- According to VDE 0022, the owner himself is responsible for compliance with EVU or VDE regulations as well as for proper installation.
- The supply voltage must first be switched off when working on the blind controlled by the GFJ006/GFJ007/GFJ009.

3 Intended Usage

The blind controllers GFJ006, GFJ007 and GFJ009 may only be used for controlling 230V~, 50Hz 1-phase blind motors.

The blind controllers GFJ006 / GFJ007 / GFJ009 (all IP54) must be installed in the blind box so that they are protected against splash water.

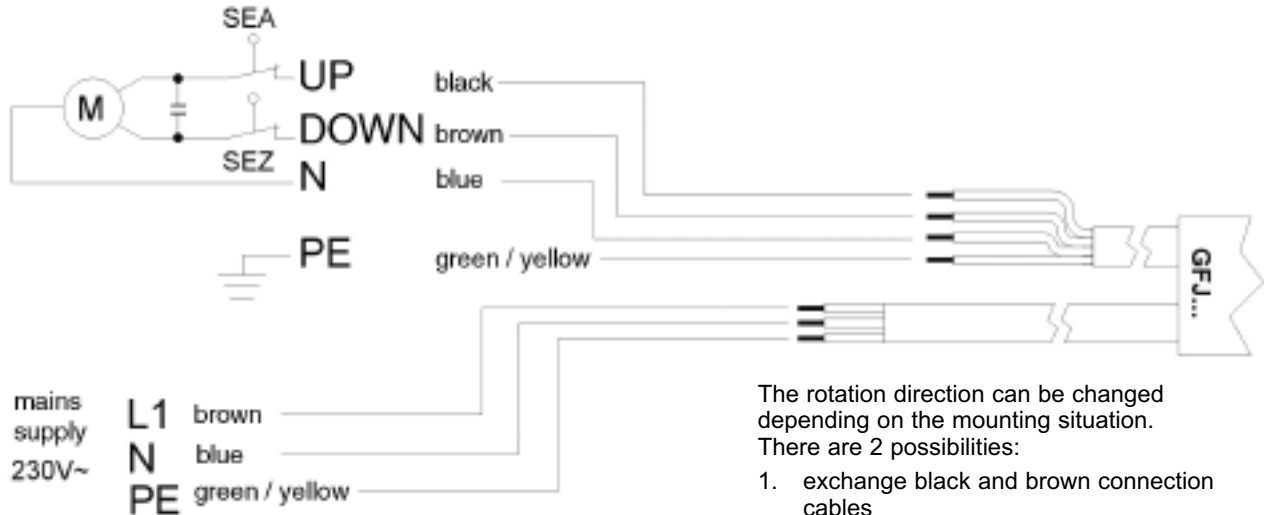
When cleaning the Venetian blinds, please make sure that you do not splash or direct water on the motor control.

4 Connection and installation

4.1 Installation instructions

The distance between two blind controllers GFJ006 / GFJ007 / GFJ09 should be at least 0.5 meters. The clearance from a permanently installed transmitter (e.g. sun – wind – automatic SW3) should be at least 2 meters.

4.2 Circuit diagram GFJ006



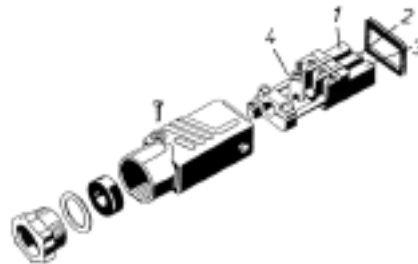
The rotation direction can be changed depending on the mounting situation. There are 2 possibilities:

1. exchange black and brown connection cables
2. exchange the relay coordination per radio (see 6.2.3.)

Connecting cables with plug connectors of the Hirschmann Company, type STAS 3K or the Phoenix Mecano Company, type GLS / 3 + PE may only be used in connection with the Hirschmann cable socket STAK 3K.

4.3. Plug-in version GFJ007

For simple installation, the blind controller GFJ007 comes already supplied with a Hirschmann plug STAS3 for mains connection, and a GEIGER-coupling M56K... for connecting the motor.



Connection
with Hirschmann plug
STAK3:

- 1 = N blue
- 2 = L1 brown (black)
- 3 = NC (not reserved)
- 4 = PE green/yellow

4.4. Plug-in version as control GFJ009

For simple installation, the blind controller GFJ009 comes already supplied with a Hirschmann plug STAS3 for mains connection and STAK3 for connecting the motor.

5 Set-up

- Adjust the blind's limit switches according to manufacturer's instructions.
- Connect the blind controller GFJ006 according to the circuit diagram or
- connect the blind controller GFJ007 with the coupling STAK3 (see circuit diagram) and establish connection (plug STAS3 for mains connection, coupling M56K for motor connection) or
- connect blind controller GFJ009 with STAK3 and STAS3

- Ready! The pre-coded system can now be operated by radio!

Convenience settings such as run time learning with the slat adjustment angle can also be made at leisure later. For details, read Point 6.1.3.

6 Extensions and individual settings

6.1. Teaching in radio commands

The controller has a total of 8 memory locations for radio codings, of which 3 x 2 memory locations are intended for manual transmitters and 2 are intended for sensors.

Manual transmitters always have 2 keys that work by mutually interlocking and that each occupy 2 memory locations. Sensors each occupy only one memory location.

6.1.1 Activate / delete learning mode

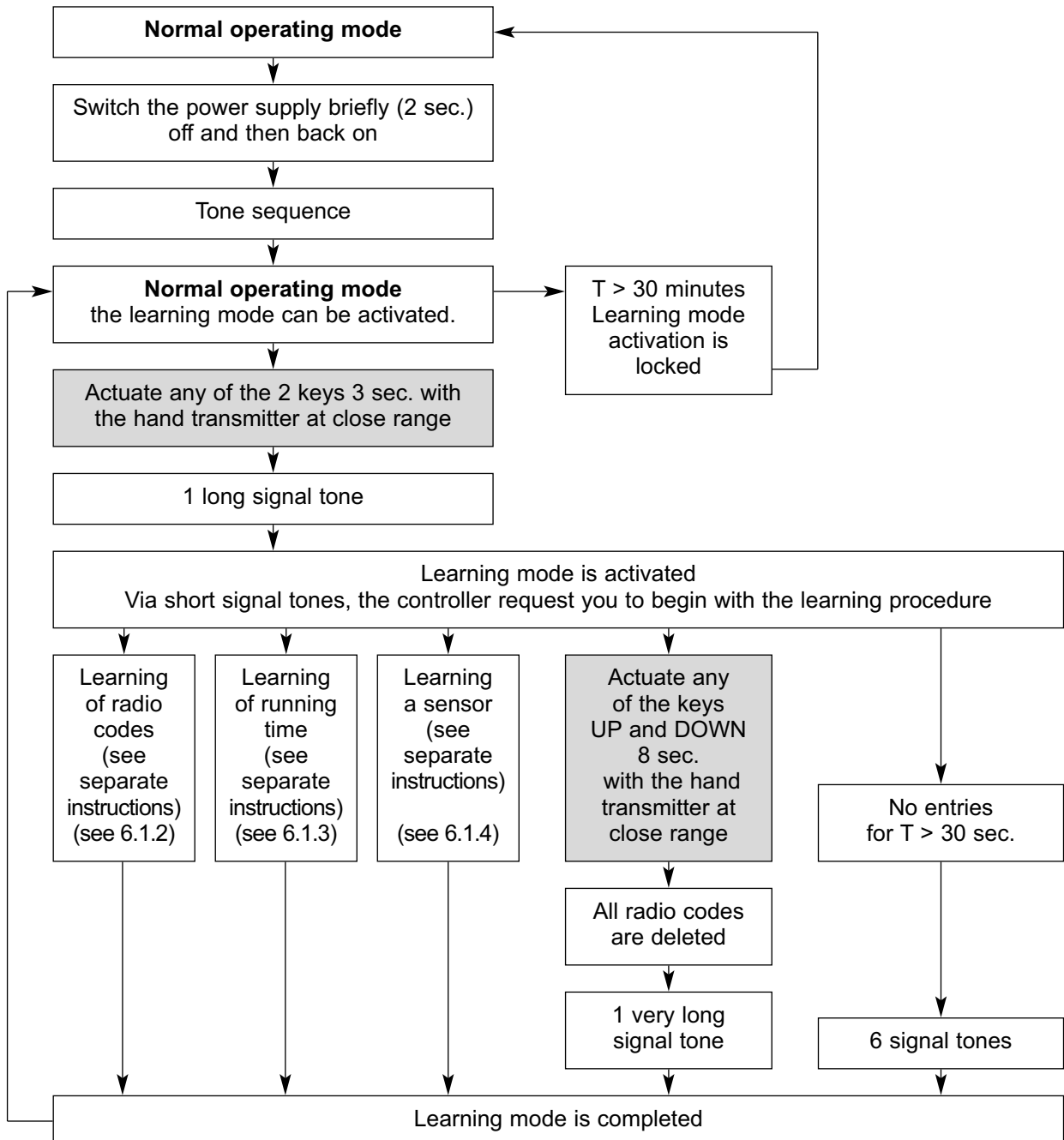
1. Set the individual coding on the manual transmitter via the DIP switch (see instruction manual transmitter).

The receiver makes the difference between proximity (close range) and distance (distance range).

When learning the device, we therefore send the inputs either at close range or at distance range.

Close range: hold the hand transmitter close to the antenna

Distance range: distance between hand transmitter and device = min. 1,5 m



6.1.2 Learning of radio codes

The device is delivered pre-coded with Geiger coding.

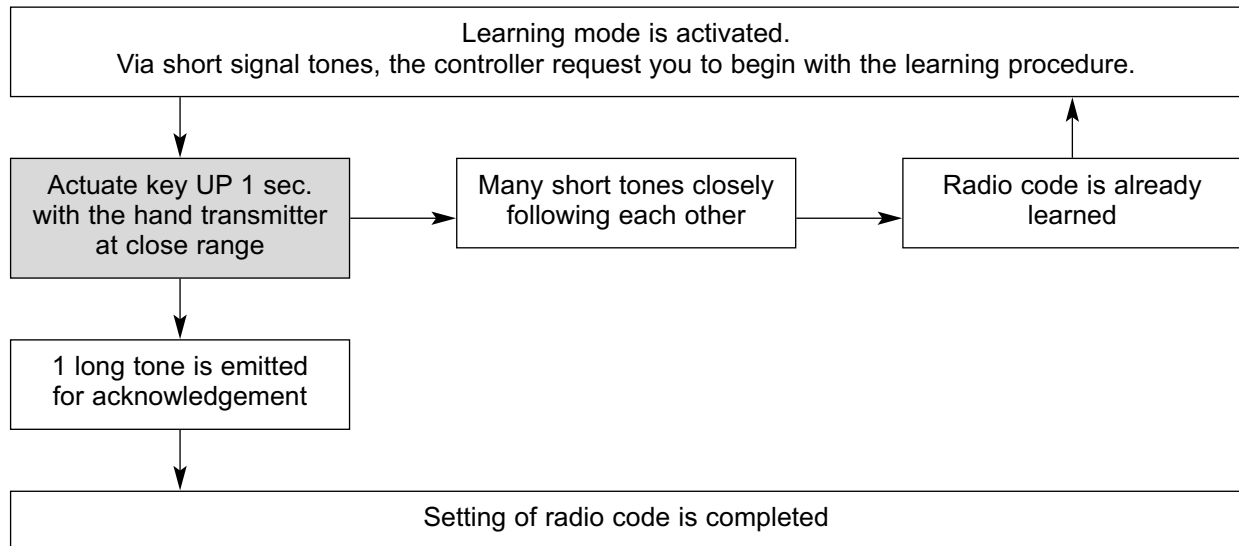
For the first learning of a radio code, the Geiger code will be replaced by a transmitter code.

Three different radio codes can be learned.

If three radio codes have already been learned and if an attempt is made to learn a 4th one, the last code actually stored is deleted and the new code stored instead.

Close range: hold the hand transmitter close to the antenna

Distance range: distance between hand transmitter and device = min. 1,5 m

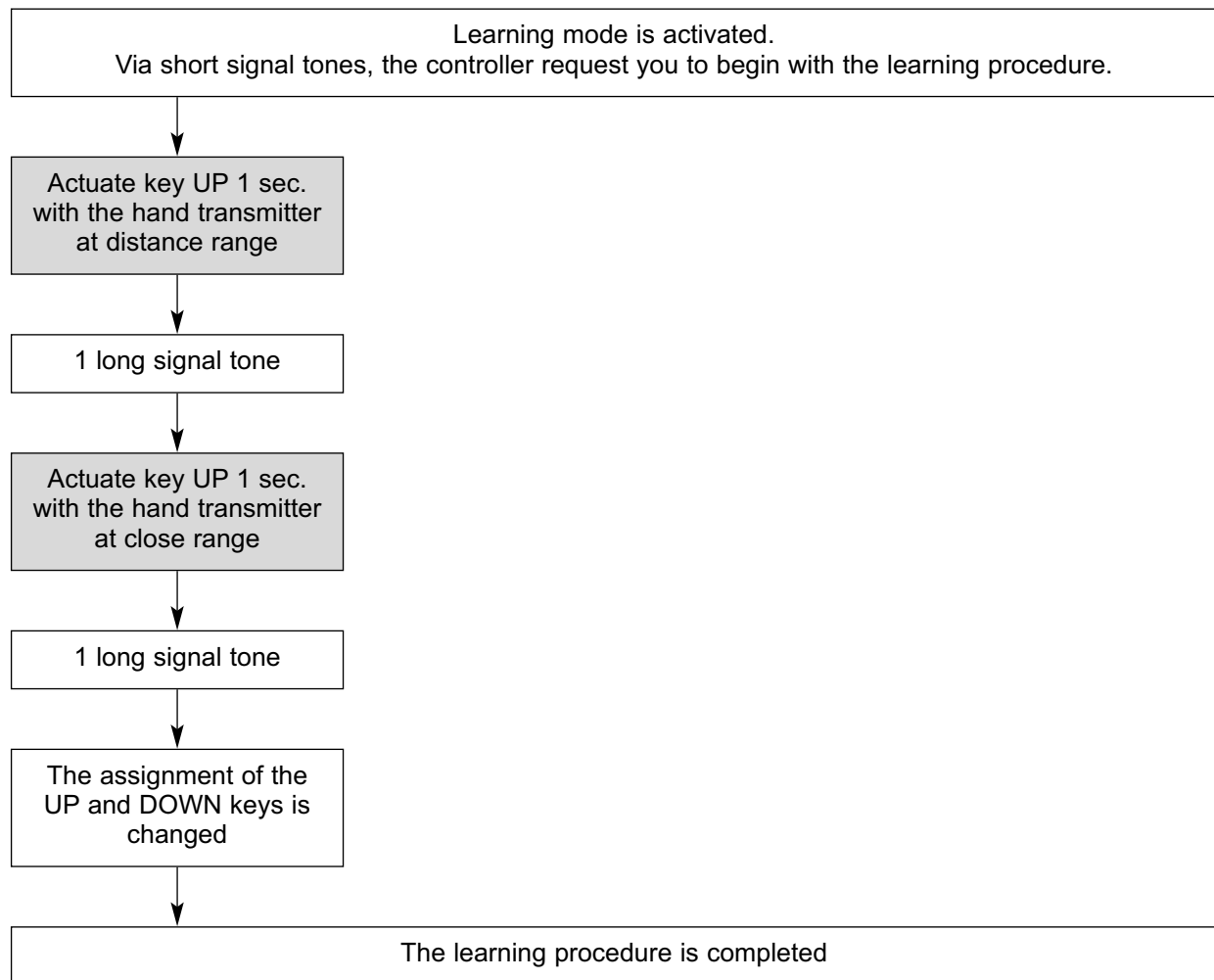


6.1.3 Learning the assignment of the control keys

Close range: hold the hand transmitter close to the antenna

Distance range: distance between hand transmitter and device: min. 1,5 m

The assignment of the control keys must be effected before the learning of the running times.

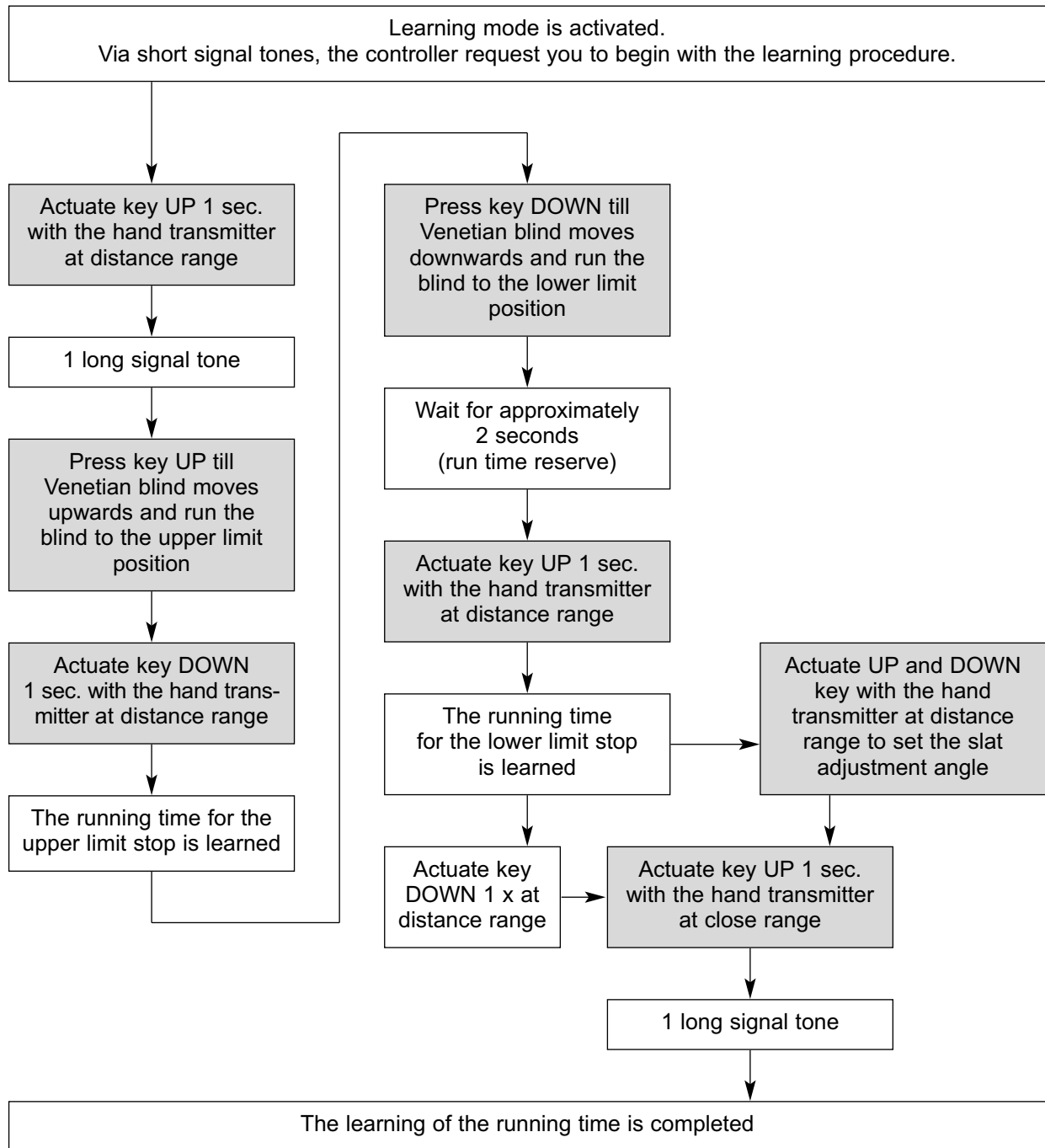


6.1.4 Learning of running times

Close range: hold the hand transmitter close to the antenna

Distance range: distance between hand transmitter and device: min. 1,5 m

The assignment of the control keys must be effected before the learning of the running times.
(also see Nr. 6.1.3 "Learning the assignment of the control keys")



7 Functions of the controller

7.1 Operation by transmitter with two keys with interlock Stop

The two control keys OPEN / CLOSED are assigned to the blind's retract / extend travel directions. The stop command is issued with the corresponding interlock key for the triggering command key.

7.2 Operation by radio sensors

The controller can learn the radio coding of two different sensors. If a sensor coding has been learned (see instruction Automatic Radio Controller GF0024), the controller reacts to the commands Sun, Twilight and Wind from sensors that have this coding.

- If Wind is received, a retract command is triggered and a delay time is started for each. Operation is no longer possible during the delay time. The sunlight and twilight sensors are blocked.

7.3 Block / enable automatic sun function

Attention! Manual operation of the controller has precedence over sun automatic operation.

- Every manual operating command of the controller interrupts automatic mode with sun and twilight sensors. The automatic sun function is active again when the blind is fully retracted again (the taught motor run time or the fixed run time of 90 seconds must have expired).
- If a manual transmitter GF0004 with the special functions "Block / enable automatic sun function" was taught into a memory location for sensors, the automatic sun function can be blocked and enabled again irrespective of the previous operation. These special commands have no cancelling effect on the initiated delay times.

Attention! After the mains voltage is switched on, the sensors are initially enabled.

8 Signal tones of the controller and error diagnosis

Tone sequence	Report
Tone sequence	Switch-on message after switching on the mains voltage.
1 long tone	Learning mode activated.
1 long tone	Radio codes for both running directions have been learned.
Many short tones closely following each other	Error message: The radio code to be learned has already been issued.
6 tones	Error message: Learning interrupted because the time has expired.
1 very long tone	The radio codes have been deleted.
1 long tone	Switchover has occurred to the next memory area.
1 long tone	The assignment of the relays to the Open and Closed directions has been mixed up.
Controller signals S-O-S	Error message: Saving not possible as memory module is defective. Controller must be repaired.
Short tones at intervals of approx. 500 ms	Error message: Data in the memory module has been lost. Teach the controller again. If the error occurs again, the controller must be repaired.
6 tones	Error message: Sensors not supported.

9 Technical characteristics

Supply voltage	230V AC (+/- 10 %) 50 Hz
Active power consumption of the controller	approx. 0.4 W
Relay switching currents (resistive)	5A
Protection type	IP54
Motor runtime	0 – 270 sec., can be taught (90 sec. fixed value)
Slat adjustment angle	0 – 2.5 sec., can be set in 0.1 sec. steps
Operating delay time after wind and rain command	10 minutes
Operating delay time after Service command	5 minutes
Sun extension command	after 3 minutes
Sizes of housing	length 90 mm, width 30 mm, depth 19 mm
Length of connecting cables (only GFJ006)	Power connection 1500 mm Motor connection 200 mm

10 Declaration of Conformity

We herewith explicitly declare that this product complies with the essential requirements and relevant directives. It is authorised for use in all EC member states and in Switzerland without any need of prior registration. The Declaration of Conformity concerning this product is available on our website: www.geiger-antriebstechnik.de

11 Notes on waste disposal

Recycling of packaging materials

In the interest of environmental protection, please contact your local government's recycling or solid waste management department to learn more about the services it provides.

Waste disposal of electric and electronic equipment

Electronic equipment or batteries cannot be discarded along with the normal household waste. Keep for more information on the recycling and disposal methods envisaged by the local regulations in your area.

