GEIGER
ANTRIEBSTECHNIK

Vibration Sensor
GRE40.

EN **Original assembly and operating instructions**

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1. General

Dear customer,

With the purchase of a GEIGER radio receiver you have decided on a quality product from GEIGER.

Thank you for your decision and the confidence you have placed in us.

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2. Warranty

In the event of improper installation contrary to the operating instructions and/or structural modification, the legal and contractual warranty for material defects and product liability shall expire. GEIGER will not assume any warranty for damage to the awning caused by improper installation, commissioning, or operation. Read these instructions with care and observe all sections to prevent damage.

3. Intended use

The GEIGER GRE40. is a wireless vibration sensor. It will measure the vibrations that occur on the awning and will send a signal to a radio receiver if the set threshold values (sensitivity) is exceeded. The drive will then retract the awning. Retraction can be stopped by the hand-held transmitter. Awning operation is not locked by sensors.

The GRE40. is only intended for open joint-arm awnings and cassette awnings.

4. Sensor-specific safety instructions

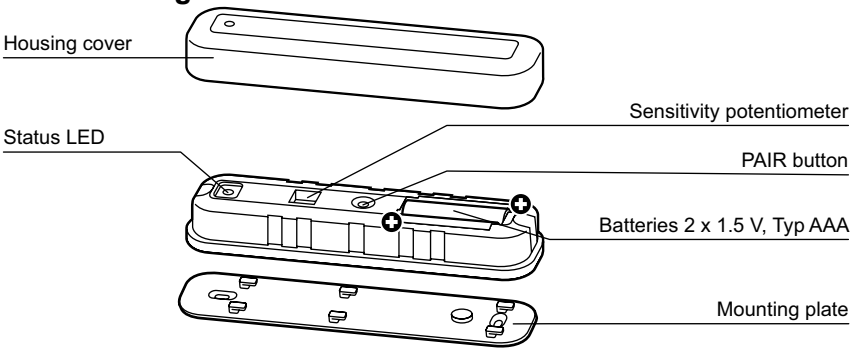
Avoid damage to the product:

- **Avoid impacts.**
- **Do not drop the sensor.**
- **Do not immerse the sensor in any liquids and protect it from splashing water.**
- **Sensors must be kept away from children.**

5. Scope of delivery

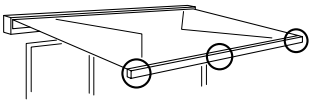
- Vibration sensor
- Batteries 2x Micro 1.5 V, type AAA
- Attachment plate with magnet
- Tool-free assembly: Double-sided adhesive strip

6. GRE40. at a glance



7. Installation

The vibration sensor should be installed at the ends or in the centre of the front profile of an awning. We recommend mounting at the ends of the front profile for the best possible detection of vibrations.


Sensor installation

ATTENTION! The vibration sensor must never be enclosed in the cavity of the front profile!

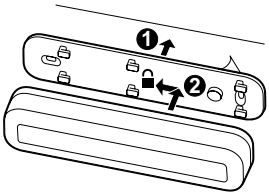
The awning cannot be protected from sudden gusts of wind. If such weather-related risks are present, the awning must remain closed.

The function will only be active if the mounting plate including magnet has been correctly connected to the vibration sensor. A short sound is emitted for confirmation.

8. Assembly

Ensure that there is enough space for the vibration sensor with the awning closed. Closing of the awning must not be impaired, and the sensor must not be damaged during retraction. The attachment point should be clean and free of grease for optimal adhesion.

1. Pull the protective film off of the adhesive strip and glue the mounting plate to the attachment point.
2. Place the vibration sensor onto the latching tabs of the mounting plate and shift the sensor to the left until it latches.



Mounting with adhesive strips

Perform step 2 in the reverse order for disassembly of the sensor.

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9. Pairing: Teaching-in the vibration sensor in the GEIGER drive or hand-held transmitter

Prerequisite for teaching in the vibration sensor

A GEIGER hand-held transmitter is already connected to the GEIGER drive or an external radio receiver (GRE001/GRE002). The wireless range of the vibration sensor is 20 metres.

1. Slide the vibration sensor off the mounting plate.
2. Unscrew the 2 screws (M2.5) with a Phillips screwdriver.
3. Remove the housing cover from the sensor.
4. Initial commissioning: Remove the insulating strip between the batteries and the sensor contacts. The LED lights up RED for 1 second.
5. Press the PAIR button on the already-programmed hand-held transmitter for approx. 5 seconds →the drive clicks.
6. Press the PAIR button on the vibration sensor for approx. 2 seconds →the drive clicks, the vibration sensor is taught-in.

10. Sensitivity

The potentiometer is set to position 0 at delivery. The value 0 is a special position where there is no reaction to any vibrations. The potentiometer can be set from 1 to 9 depending on the desired sensitivity. A value of 1 sets the vibration sensor to the highest sensitivity level. The sensitivity decreases with increasing numbers (0 = special position, 1 = most sensitive, 9 = least sensitive).

11. Sensitivity settings

1. Set the sensitivity on the potentiometer to the desired threshold using a screwdriver: 1 = maximum sensitivity, 9 = minimum sensitivity.
2. Place the housing cover on the sensor and turn in the 2 crosshead screws.
3. Push the sensor to the mounting plate to the stop: The sensors are set and active.
4. Make the awning vibrate and check the settings.
5. If sensitivity is set incorrectly, change the setting (0 = special position OFF, 1 = maximum sensitivity, 9 = minimum sensitivity).

12. Deleting the vibration sensor from the drive

1. Push the PAIR button on the hand-held transmitter for approx. 2 seconds → the drive clicks.
2. Push the PAIR button on the vibration sensor for approx. 10 seconds → the drive clicks and the vibration sensor is deleted.

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13. Replacing batteries

The LED starts to flash when the battery is low.

1. Slide the vibration sensor off the mounting plate.
2. Remove both screws (M2.5) on the back of the vibration sensor using a Phillips screwdriver.
3. You can now remove the housing cover and replace the batteries.
4. Insert the new batteries into the sensor in accordance with their polarity: The LED lights up for 1 second to confirm that the batteries are inserted correctly.

14. Technical data

Transmission frequency	433.92 MHz
Transmission power	6 dBm
Temperature range	-0°C to +60°C
Protection class	IP54
Dimensions	150 x 35 x 25 mm (incl. 5 mm base plate)

Subject to technical changes

15. Declaration of conformity

The receiver complies with the technical regulations of the European Community, bears the CE mark and can be used in all EU countries and Switzerland without registration.

The declaration of conformity for the hand-held transmitter can be found at www.geiger.de

16. Disposal instructions

Disposal of packaging materials

Packaging materials are raw materials and can, therefore, be reused. Please dispose of them properly in the interest of environmental protection!

Disposal of electrical and electronic appliances

Electrical and electronic equipment must be collected and disposed of separately in accordance with the EU Directive.

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For technical questions, please call our service team at: +49 (0) 7142 938 333. They will be happy to assist you.

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