

Wind sensor Standard

Order No. : 0913 00

Operating instructions**1 Safety instructions**

Electrical equipment may only be installed and fitted by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. Always disconnect before carrying out work on the device or load. At the same time, take into account all circuit breakers that supply dangerous voltage to the device or load.

Danger of electric shock. Not suitable for controlling 24 V Venetian blind inserts. If there is a fault, 230 V might enter the 24 V network.

These instructions are an integral part of the product, and must remain with the end customer.

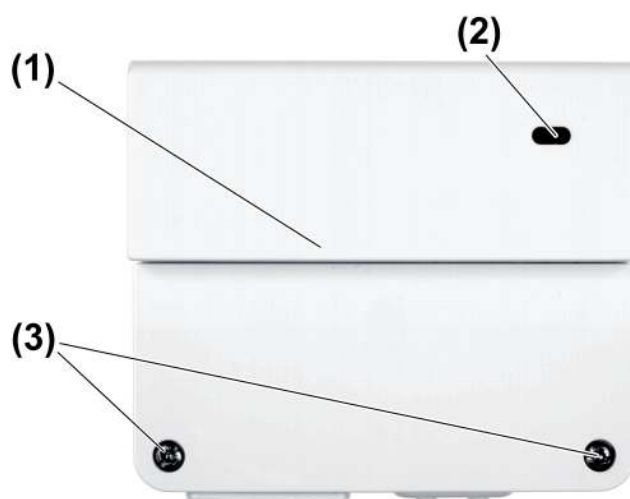
2 Device components

Figure 1



Figure 2

- (1) Evaluation unit
- (2) Test LED
- (3) Housing lid screws
- (4) Wind sensor

3 Function

Intended use

- The evaluation unit and wind sensor are used to protect a blind/shutter against destruction due to excessively strong winds. The blind/shutter is moved to a safe end position and locked there until the wind drops below the set wind speed value.
- The evaluation unit is operated together with a Venetian blind insert or binary inputs of the KNX system.
- Surface-mounted devices for outdoor installation

Product characteristics

- Detection and evaluation of wind speeds
- 8 wind speeds can be set
- The wind alarm is triggered 15 seconds after the set wind speed threshold value is exceeded
- Test operation for function testing

4 Information for electrically skilled persons

4.1 Fitting and electrical connection

Mounting and connecting the wind sensor

- Mount the wind sensor on the roof or on the wall of a house. It must be attached at a position suitable for wind speed measurement. Do not mount it in the wind shadow and ensure mounting in the correct position (Figure 2).
 - Connect wind sensor to the "+" and "-" terminals (7) of the evaluation unit. Use a shielded cable for this. Recommendation: JY-ST-Y 2x0.6.
- i** Sensor cables run SELV low voltages acc. to IEC 60364-4-41. When connecting the wind encoder, ensure safe separation.

Connecting the evaluation unit**DANGER!**

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before working on the device, disconnect all the corresponding miniature circuit breakers. Cover up live parts in the working environment.

- Remove the housing lid of the evaluation unit by slackening the two screws (3).
- For rear cable insertion, penetrate the rubber seal (6) and insert the cable (Figure 3).

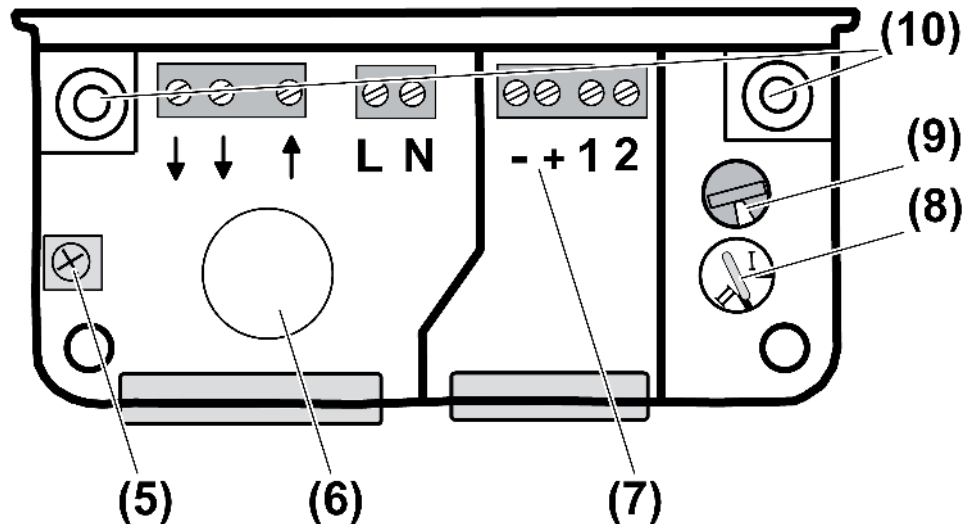


Figure 3: Evaluation unit connection compartment

- Fasten the device using two screws (10).
 - Insert the cables into the connection housing and connect the according to the connection diagram (Figure 4).
 - If multiple miniature circuit breakers supply dangerous voltages to the device or load, couple the miniature circuit breakers or label them with a warning, to ensure release is guaranteed.
- i** Terminals 1 and 2 serve as distributor terminals and are not connected inside the device. They can be used, for example, for a heated wind sensor.
- i** The distributor terminal (5) serves to connect the protective conductor.

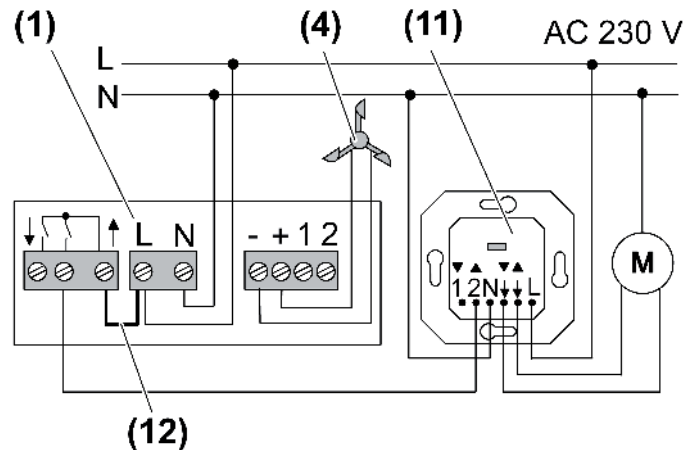


Figure 4: Connection diagram for connecting the evaluation unit to the Venetian blind controller

- The evaluation unit has a relay with two potential-free NO contacts. To control the Venetian blind insert (11) from the same conductor, place a bridge (12) between the relay input and the conductor.
- Carry out commissioning (see Commissioning chapter).
- Close the housing lid of the evaluation unit.
- i** If 230 V is present at extension input 2 of the insert (11), then the blind/shutter moves to the top end position and cannot be operated, either manually or automatically.
- i** Glass break sensors may not be used jointly with the wind sensor. After there is a glass break, the wind alarm function is locked and the Venetian blind or roller shutter does not move to a safe end position.

4.2 Commissioning



DANGER!

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before working on the device, cover up live parts in the working environment.

Setting the wind sensor switch in the evaluation unit

- Open the housing lid of the evaluation unit.
- Turn the rotary switch to the (8) to the II position, factory setting (Figure 3).

Carrying out test operation

The rotary switch (9) specifies the wind speed at which the blind/shutter moves up or activates the test operation.

In test operation, the function of the devices can be checked even at a low rotary speed.

- Turn the rotary switch (9) to the 1 or 2 position.
The test LED (2) lights up after a second.
- Turn the anemometer of the wind sensor.
The test LED flickers at the rotary speed of the anemometer.

Setting the wind speed threshold vale

- Using the rotary switch (9), set the wind speed at which the blind/shutter is to move to the protected end position (Figure 5). The setting is made in Beauforts Bft.

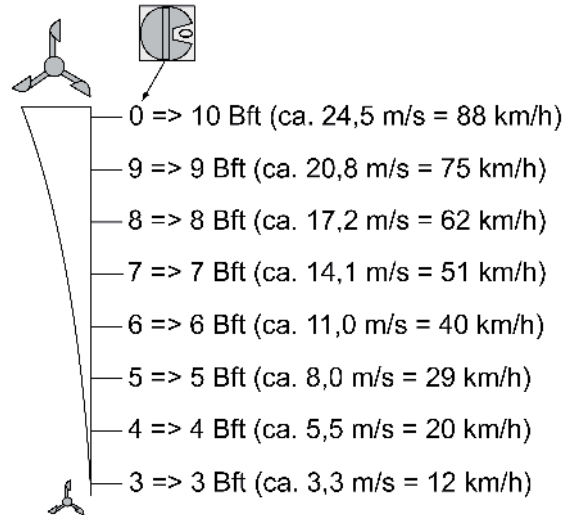


Figure 5: Wind speed setting

- i** If there is a change between two wind speeds, the selected wind speed is applied after max. 5 minutes. The wind speed is applied faster after short-term switch on of test operation.

5 Appendix

5.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 Hz
Degree of protection	IP 55
Switching current	max. 2 A
Contact type	μ contact, potential-free NO contact
Connection	
single stranded	max. 4 mm ²
Fine-wire	max. 2.5 mm ²
Finely stranded with conductor sleeve	max. 1.5 mm ²
Switch-on delay	approx. 15 s
Switch-off delay	approx. 15 min
Data according to EN 60730-1	
Action	1.B
Degree of soiling	2
Meas. surge vol.	4000 V
SELV limit value	AC 24 V ~

5.2 Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade). They will forward the devices to the Gira Service Center.

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