

## Operating instructions

Wind sensor Standard  
Order no. 0913 00



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## 1 Safety instructions



Electrical devices may be mounted and connected only by electrically skilled persons.

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

Danger of electric shock. Always disconnect before carrying out work on the device or load. In so doing, take all the circuit breakers into account, which support dangerous voltages to the device and 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.

This manual is an integral part of the product, and must remain with the customer.

## 2 Device components

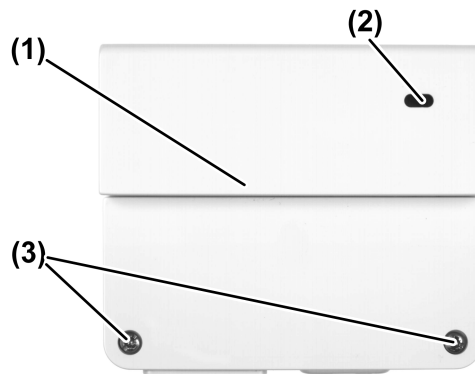


Figure 1

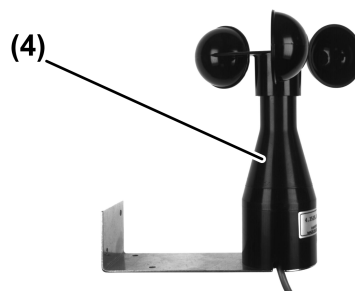


Figure 2

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

### 3 Intended use

- The evaluation unit and wind encoder 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.
- Evaluation unit: Surface-mounted device for mounting inside in dry rooms
- Wind encoder: Device for mounting outdoors

### 4 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

## 5 Information for electrically skilled persons

### 5.1 Mounting and electrical connection

#### Mounting and connecting the wind encoder

- Mount the wind encoder 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 (see figure 2).
- Connect wind encoder to the  $S_1$  and  $S_2$  device connection terminals (7) of the evaluation unit. Use a shielded cable for this. Recommendation: JY-ST-Y 2x0.6.

 Sensor cables run SELV low voltages acc. to IEC 60364-4-41. When connecting the wind encoder, ensure safe separation.

#### Connecting and mounting the evaluation unit



### **DANGER!**

Electric shock when live parts are touched.

Electric shocks can be fatal.

Always disconnect device before carrying out work on it. For this, switch off all corresponding circuit breakers, secure against being switched on again and check that there is no voltage. Cover up adjacent live parts.

 Mounting only inside in dry rooms.

- 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 (see figure 3).

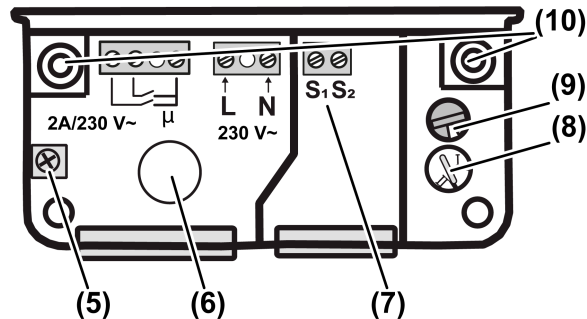


Figure 3: Evaluation unit connection compartment

- Fasten the device using two screws (10).
  - Insert the cables into the connection housing and connect them according to the connection diagram (see figure 4).
  - For device protection, connect a B6A circuit breaker upstream.
  - If multiple circuit breakers supply dangerous voltages to the device or load, couple the circuit breakers or label them with a warning to ensure tripping.
- i** The distributor terminal (5) serves to connect the protective conductor.

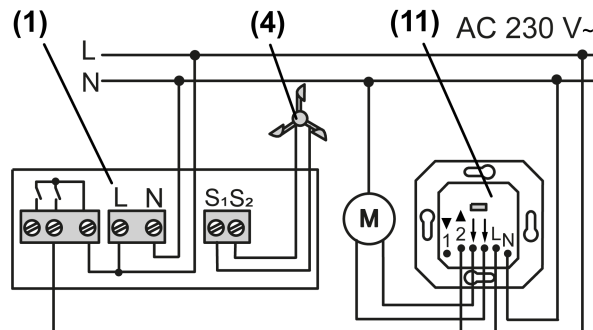


Figure 4: Connection diagram for connecting the evaluation unit to the Venetian blind controller (11)

- 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.

## 5.2 Commissioning



### DANGER!

Electric shock when live parts are touched.

Electric shocks can be fatal.

During commissioning, cover the parts carrying voltage on the device and in their surrounding area.

### 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 (see 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 encoder.  
The test LED flickers at the rotary speed of the anemometer.

### Setting the wind speed threshold value

- Using the rotary switch (9), set the wind speed at which the blind/shutter is to move to the protected end position (see figure 5).

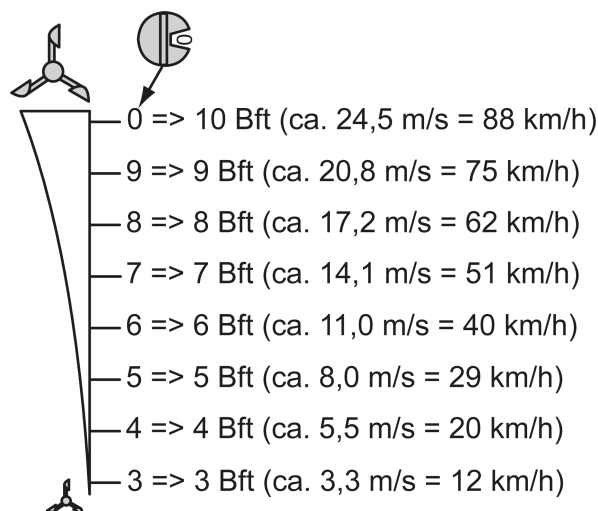


Figure 5: Wind speed setting

- 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.

## 6 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 Hz
Switching current	max. 2 A
Power consumption	1.2 W
Contact type	μ
Ambient temperature	-20 ... +55°C
Degree of protection	
Evaluation unit	IP20
Wind encoder	IP55
Switch-on delay	approx. 15 s
Switch-off delay	approx. 15 min
Connection	
Single stranded	0.2 ... 4 mm <sup>2</sup>
Fine-wire	0.2 ... 4 mm <sup>2</sup>
Finely stranded with conductor sleeve	0.2 ... 2.5 mm <sup>2</sup>
Data according to EN 60730-1	
Type of action	1.B
Degree of soiling	2
Measured surge voltage	4000 V
SELV limit value	AC 24 V~

## 7 Warranty

The warranty is provided by the specialist trade in accordance with statutory requirements. Please submit or send faulty devices postage paid together with a fault 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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