RolloTec interface surface-mounted for wind sensor
Order-No. : 173
RolloTec wind sensor
Order-No. : 172 01

Operation- and
Assembly 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 devise 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

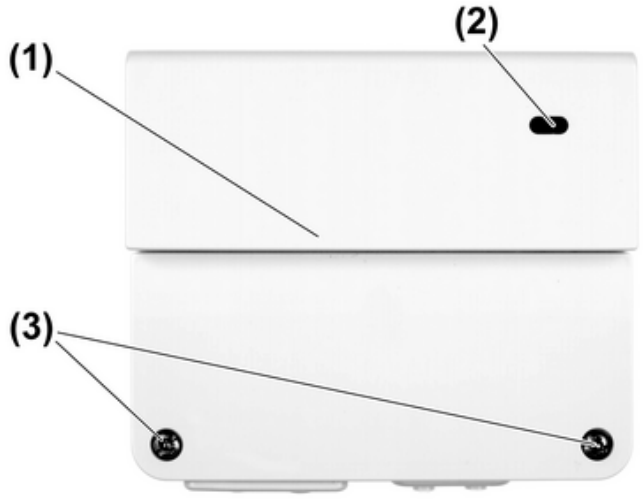

Figure 1

Figure 2

(1) Wind sensor interface
(2) Test LED
(3) Housing lid screws
(4) Wind sensor

3 Function

Intended use

- The wind sensor interface 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 wind sensor interface is operated together with a Venetian blind insert.
- 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 wind sensor interface. 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 sensor, ensure safe separation to other circuits.

Connecting the wind sensor interface

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 wind sensor interface by slackening the two screws (3).
- For rear cable insertion, penetrate the rubber seal (6) and insert the cable (Figure 3).

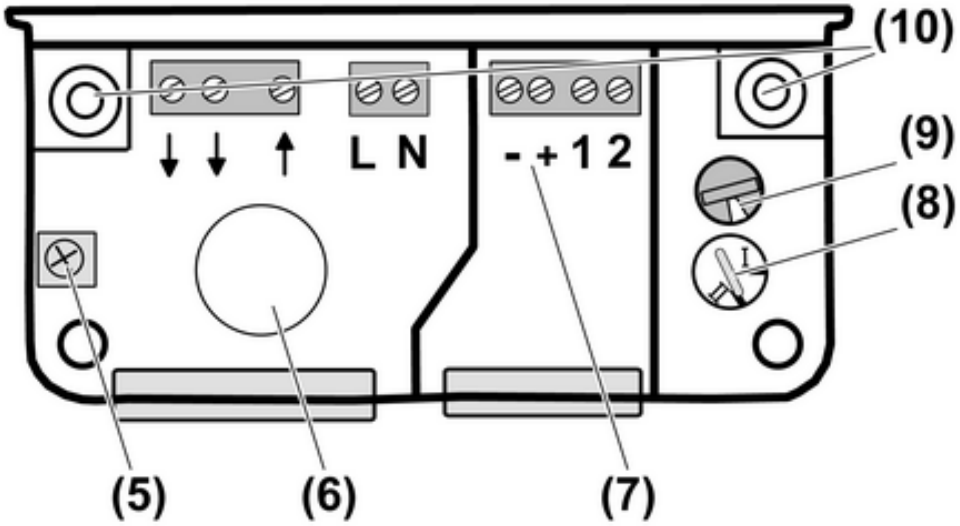

Figure 3: Wind sensor interface connection compartment

- Fasten the device using two screws (10). The screws and anchors are contained in the scope of delivery.
- 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 (accessory).

i The distributor terminal (5) serves to connect the protective conductor.

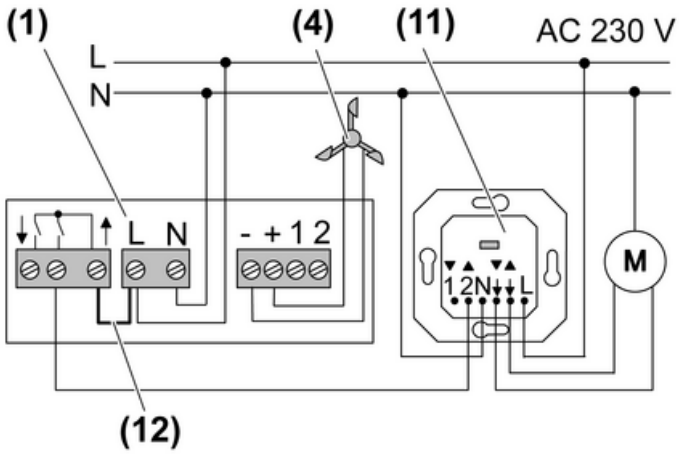

Figure 4: Connection diagram for connecting the wind sensor interface to the Venetian blind controller.

- The wind sensor interface 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 wind sensor interface.

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 wind sensor interface.
- 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.

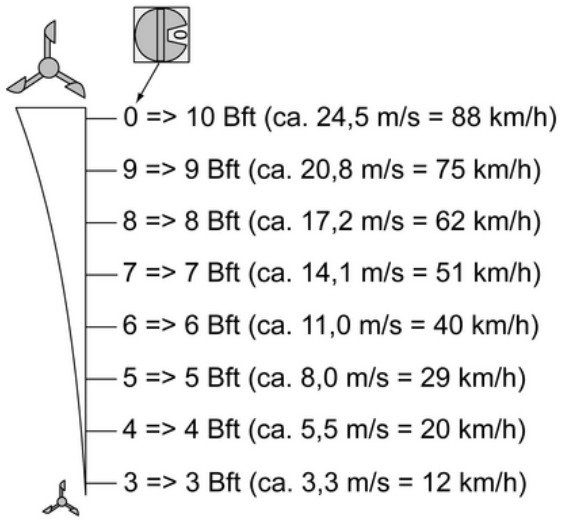

Figure 5: Wind speed setting

If there is a change between two wind speeds, the selected wind speed is applied after max. 4.5 minutes. The wind speed is applied faster after short-term switch on of test operation.

5 Appendix

5.1 Technical data

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Rated voltage	AC 230 V ~
Mains frequency	50 Hz
Protection rating	IP 55
Safety class	II
Switching current	max. 2 A
Contact type	µ contact, potential-free NO contact
Connection	
Single stranded	max. 4 mm²
Finely stranded	max. 2.5 mm²
finely stranded with conductor sleeve	max. 1.5 mm²
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
Measured surge voltage	4000 V
SELV limit value	AC 24 V ~

5.2 Accessories

Wind sensor Thies, heated; Order no. 4.3515.50.000

5.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

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