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STR-W Wind sensor



Do not dispose of this device in the trash along with other waste! According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Purpose

The STR-W controller along with the external wind sensor is designed for monitoring of current wind speed. If the wind speed exceeds a given threshold value, the internal relay will switch on. Combined with STR-3 or STR-4 roller blind controllers it allows to build a system that closes window roller blinds or retracts awnings if the wind is too strong.

Functioning

The controller operates in two modes:

Continuous mode



If the wind speed exceeds a given threshold value, the internal contact relay closes and remains closed for the entire duration of wind gusts.

Continuous mode



Combined with STR-3 and STR-4 roller blind controllers, the continuous mode ensures closing of roller blinds at a time of strong wind and locks them in closed position until the wind ceases.

The range of wind speed alert is regulated smoothly from 30 km/h (position A) to 80 km/h (position B).

Pulse mode



If the wind speed exceeds a given threshold value, the internal contact relay closes for approx. 1.5 second, passing to the roller blind controllers a single command of closing. Combined with STR-3 and STR-4 roller blind controllers, the pulse mode ensures closing of roller blinds at the time of strong wind, but then the user has the ability to raise the roller blinds at any time.

The range of wind speed alert is regulated smoothly from 20 km/h (position D) to 70 km/h (position C).

The selection of the operating mode is made using the knob on the front of the controller.

Signalling

Indication green LED U: controller's power supply

Indication red LED OUT:

- » **Continuous mode** – contact switching and the exceeding of the given wind speed is indicated by continuous LED light.
- » **Pulse mode** – contact switching and the exceeding of the given wind speed is indicated by LED light. After contact disconnection, the LED blinks for the whole duration of the wind that exceeds the given strength limit.

Mounting

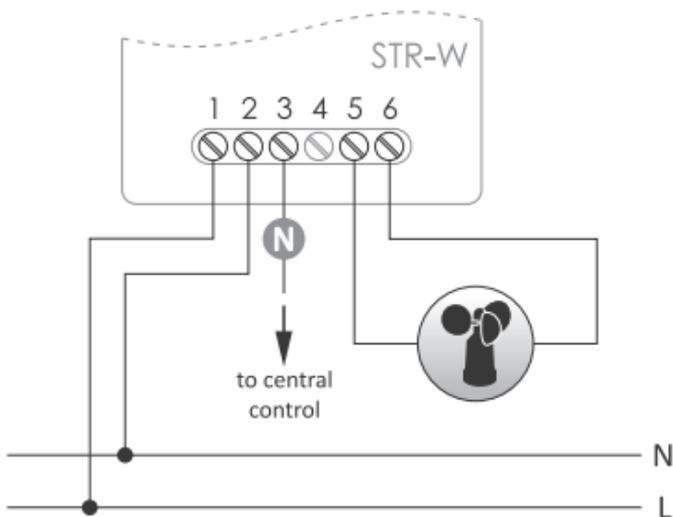
1. Disconnect the power.
2. Install the STR-W controller in a place not directly exposed to weather conditions.
3. Install the external wind sensor on the outside of the building, in a place directly exposed to wind.
4. Connect the external wind sensor to S1 and S2 terminals in STR-W controller (in arbitrary order).



f necessary, the wire to the external wind sensor may be extended by an additional 3-core cable (recommended wire diameter: 0.25÷0.5 mm²). Make sure the connection point is properly protected from moisture and atmospheric conditions. In the case of long wires (>20 m) the use of shielded cables is recommended. The cable shield must be connected from one side to the PE level)

5. Connect the controller accordingly to the chosen scheme of operation.
6. Set the selected operating mode and wind speed with the potentiometer.
7. Connect the power.

Wiring diagram



Using 12/24V roller blind controllers requires proxy relay, for example PK-1P (see page 6).

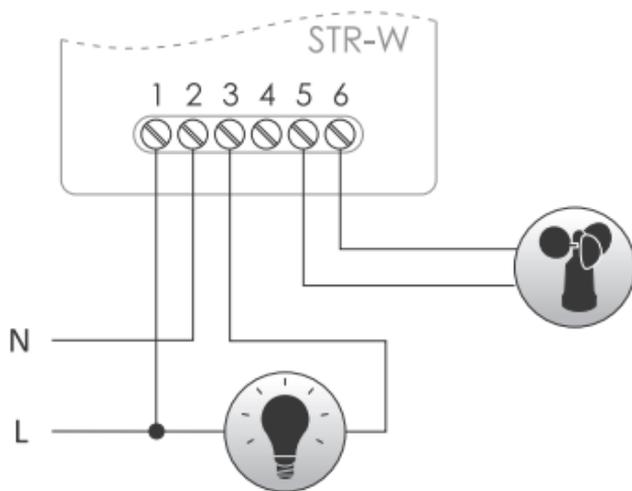


Directly connecting STR-W controller to STR-4 or STR-3D 24 V controllers inputs will result in equipment damage and may cause fire or electric shock to the user.

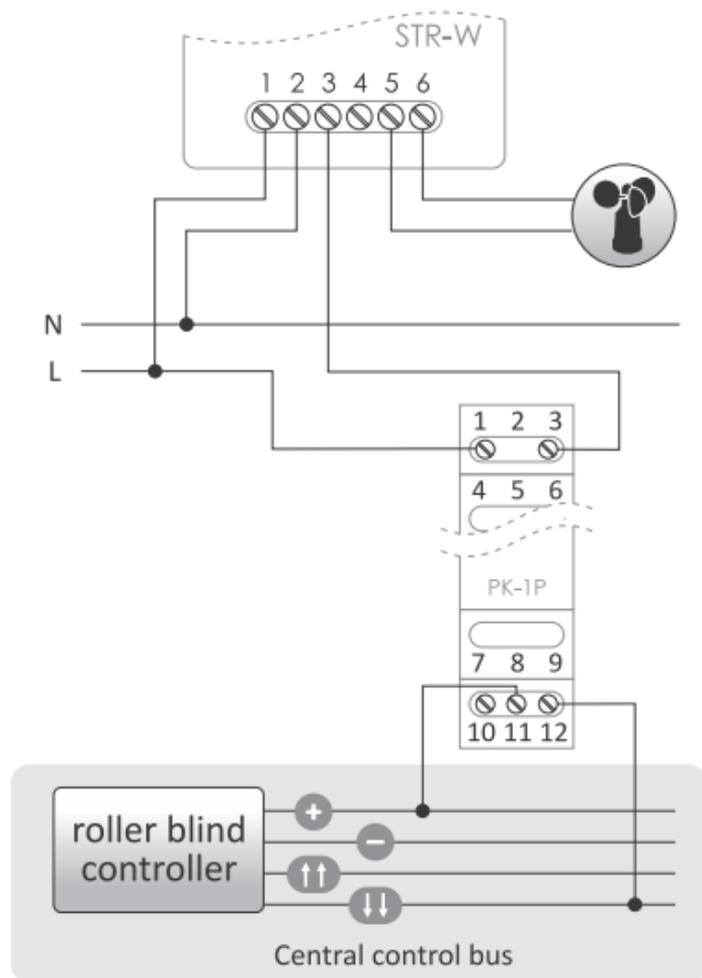
Description of terminals

- 1 power supply L
- 2 power supply N
- 3 OUT signal output
(internal contact relay N on output)
- 5, 6 S1-S2 wind sensor signal input

Application examples



STR-W connection as a signalling of exceeding the threshold
the set wind force



STR-W connection with low-voltage receivers

Technical data

controller

power supply	100÷265 V AC
contact	internal relay closing passes the N line level
maximum load current (AC-1)	2 A/230 V
power consumption	
standby	0.2 W
on	0.6 W
working temperature (without vapor condensation)	-15÷50°C

signalling

power	green LED
strong wind and relay activation	red LED
terminal	4.0 mm ² screw terminals
tightening torque	0.5 Nm
dimensions	67×50×26 mm
insulation (power/sensor/contact)	≥500 V
mounting	surface
protection level	IP20

propeller

wire	2×0,25 mm ² /l= 5 m
mounting bracket	flat steel (L profile) 150×70×3 mm
dimensions	∅80, h= 85 mm
mounting	N6 screw
protection level	IP65

Warranty

F&F products are covered by a 24-month warranty from the date of purchase. The warranty is only valid with proof of purchase. Contact your dealer or contact us directly.

CE declaration

F&F Filipowski sp. j. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE. The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page: www.fif.com.pl from the product subpage.