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STR-R Rain sensor



5190831215977731

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-R controller along with external rainfall sensor is designed to detect rainfall. Combined with STR-3 or STR-4 roller blind controller it allows to build a system that in the case of rain closes window roller blinds or retracts awnings.

Functioning

The controller operates in two modes:

Continuous mode



With the start of a rainfall the internal contact relay closes and remains closed for the entire duration of rainfall.

Combined with STR-3 and STR-4 roller blind controllers the continuous mode ensures closing of roller blinds at a time of rainfall and locking them in closed position until the end of rainfall.

Pulse mode



With the start of a rainfall the internal contact relay closes for approx. 1.5 second, passing to roller blind's 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 rainfall, but then the user has the ability to raise the roller blinds at any time.

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 occurrence of rainfall is indicated by continuous LED light.
- » **Pulse mode** – contact switching and the occurrence of rainfall is indicated by LED light. After contact disconnection the LED blinks for the whole duration of rainfall.

Mounting

1. Disconnect power.
2. Install the STR-R controller in a place not directly exposed to moisture.
3. Install the external rain sensor on the outside of the building. It is recommended to install the sensor at an angle of $10\div 30$ degrees to the floor so that water can flow freely from the sensor surface.
4. Connect the external rain sensor, paying attention to the order of the wires.



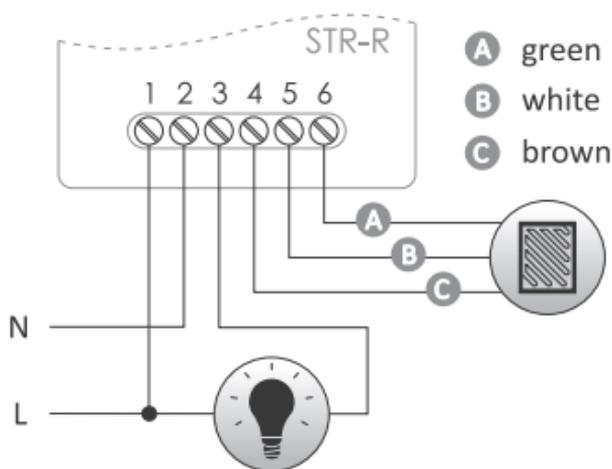
If necessary, the wire to the external rain sensor may be extended by an additional 3-core cable (recommended wire diameter $0,25\div 0,5\text{ mm}^2$). Make sure the connection point is properly protected from moisture and atmospheric conditions).

5. Connect the controller accordingly to the chosen scheme of work.
6. Set the selected with potentiometer operation mode (A or B).
7. Connect power.

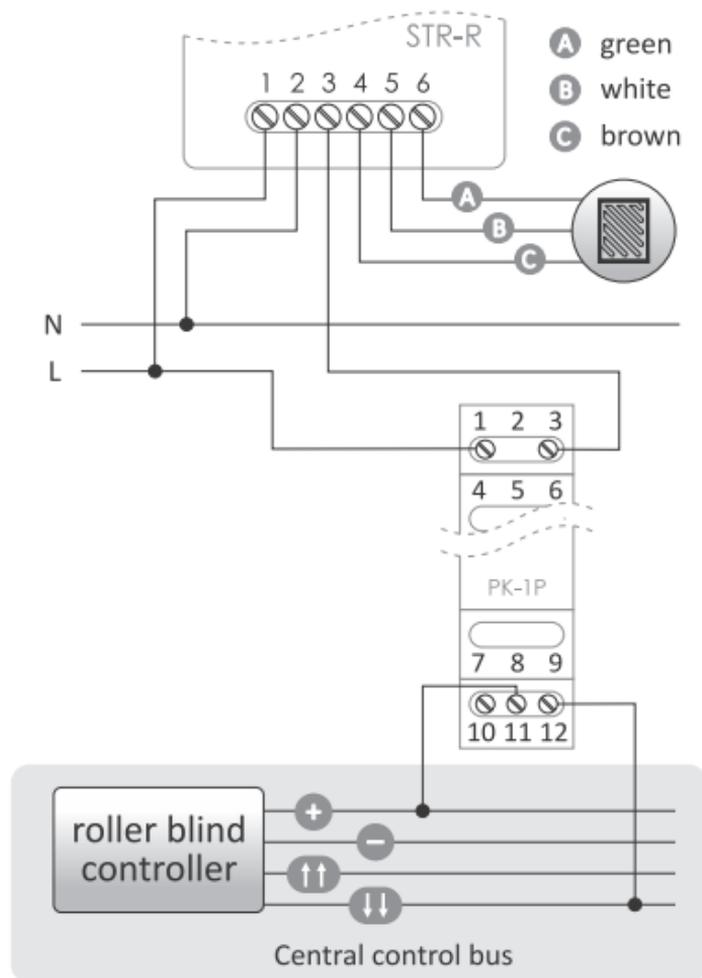
Description of terminals

- 1 power supply L
- 2 power supply N
- 3 OUT signal output
(internal contact relay N on output)
- 4, 5, 6 rain sensor signal input:
 - A green
 - B white
 - C brown

Application examples



Scheme of STR-R controller as a rainfall indicator



STR-R 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 condensations)	-15÷50°C
external connections	max. 2.5 mm ²
tightening torque	0.4 Nm
signalling	
power	green LED
rain 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

rain sensor

power supply	8÷32 V DC
wire	3×0.25 mm ² /l= 5 m
dimensions	55×50×13 mm
mounting	screw hole ø3/adhesive tape
position	<30°
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.