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STR-2

Roller blind controller
2-buttons



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 roller blind controller STR-2 is designed for controlling roller blinds (up and down movement) or other devices (for example, gates) that are driven by a single-phase AC electric motor and operated by means of momentary switches (for example, bell-pushes). The controller can operate as an independent unit (designated for opening/closing one roller blind) as well as the controllers can be combined into groups that enable the central controlling of many roller blinds.

Functioning

Supplied the relay is to signal by shine of green LED "U". The roller blind motor is activated by the momentary switching of a current pulse (L or N) to one of the control inputs. The motor is activated at a time programmed previously by the user. The activation time programmed enables the complete lifting or lowering of the roller blind. Also, there is a possibility of stopping the rolled blind activated at a level selected by the user (non-complete opening or closing of the roller blind).

Controller control inputs

LOCAL CONTROL – a button connected to terminal 6, controlling one roller shutter.

↑ ↓ – upwards (opening)/downwards (closing)

Pressing the local button activates the roller shutter on the movement in the opposite direction to the last one (after connection of the controller to the power supply, the first movement causes closing of the roller shutter). If the roller shutter is already in motion, pressing the local control button will stop the roller shutter. Pressing the local button again will cause the roller shutter to move the roller shutter in the opposite direction.

CENTRAL CONTROL – a common group of push-buttons which are connect to joint 7 and 8 for many controllers (minimum two controllers) that controls all roller blinds included in the central control system.

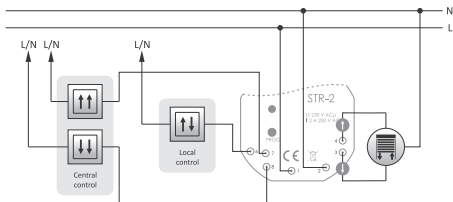
↑↑ – all upwards; ↓↓ – all downwards.

Pressing the central control push-button activates the movement of the roller blinds in a selected direction. If one of the roller blinds is already moving in the same direction, its movement will be continued. If one of the roller blinds is moving in the opposite direction, this roller blind will be first stopped and then its movement will be activated in the direction in accordance with the command sent to the central input.



The central control enables only activating the movement of the roller blinds in a selected direction. The roller blind will be stopped after the programmed movement time or when any of the local control push-buttons is pressed.

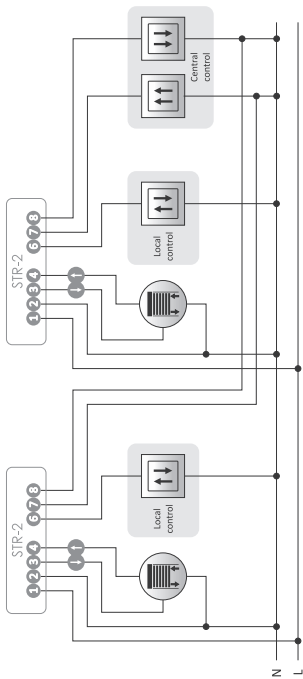
Connecting diagram



- 1-2 power supply 230 V (L-N)
- 3 motor power supply – output **DOWN** direction ↓
- 4 motor power supply – output **UP** direction ↑
- 6 local control – **UP/DOWN** direction ↑ ↓
- 7 central control – **UP** direction ↑ ↑
- 8 central control – **DOWN** direction ↓ ↓



Control inputs could be supplied from a phase cable (L) or neutral cable (N). Make a choose of one control option for all inputs.



Example circuit diagram for a system of 2 roller shutter controllers working with a common central control (control signal: N)

Programming time of enclose

1. Press and hold a button **PROG** for time when green LED "U" start to pulsate.
2. When we again press a button **PROG (START)**. Controller start count a time which is to signal by pulsate of green LED.
3. Press again a button **PROG (STOP)**. Controller remember a counted time. Programming mode is automatically closed (green LED U shine continually).



If at time 30 sec from start programming mode a count of time doesn't to start, then controller will out from programming mode.



Max time for programming 10 min. Test by long time than 10 min. to cause controller automatically out from programming mode.



Input to programming mode posible is only when motor of roller is OFF.



In programming mode a controller doesn't to react for outward control signal.

Mounting

1. Take OFF the power.
2. Mount the controller in the flush-mounted box.
3. Connect power cable to terminals 1-2 with marks.



Group of controllers which working with common central control should be supplied from the same phase e.g. only L1.

4. Choose control option (control impulse L or N). Switch of local control and central control connect with marks with function to terminal to chosen cable (accordance with chosen control option – L or N).



All control inputs of controllers which works separately or in group should have to common control impulse option – all are controlling from the same phase, e.g. only L1; or all from N.



Choosing control option from phase (L) to control inputs should be connect to the same phase as for supply e.g. only phase L1.



Connection different phase e.g. L1 and L2; or phase L and "zero" N to inputs of control inputs of controller can cause to wrong work of system and break controllers.

5. Controlled roller motor connect properly to terminals 3 and 4 and to N.
6. Take ON the power.
7. Programming to time of upwards/downwards of roller. Prescribed is that programmed time should be longer than 10 sec from real time of upwards/downwards.

Technical data

power supply	230 V AC
maximum load current (AC-1/AC-3)	8 A/1.5 A
power of connected single-phase motor	320 W
control	triggered by level L or N
control pulse current for L/N	<1mA
switch-on time (adjustable)	0 sec÷10 min.
power/programming indication	green LED
power consumption	<1 W
working temperature	-25÷50°C
signal terminal	4×DY 1mm ² , L=10 cm
supply terminal	2×DY 1.5mm ² , L=10 cm
dimensions	ø55, H= 20 mm
mounting	in flush-mounted box ø60
ingress protection	IP20



The controller uses the strength of the contact relay 8 A to resistive load. Due to the inductive nature of the charge introduced by the engine shutters should not be charged more than the contact current 1.5 A. Corresponds to power of motor about 320 W.

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 L.P. 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 from the product subpage.