

STR-1

roller blind control unit

Instructions for installation and use

Safety guidelines

Basic guidelines

The STR-1 control system can be safely installed and used provided all of the following instructions of installation and use as well as obligatory health and safety regulations are adhered to.

The installation and repairing of electrical equipment should be carried out only by persons with appropriate legal qualifications.

Reconstructing or making changes to the STR-1 control system is forbidden. During the guarantee period repairs only the manufacturer may carry out repairs. Even after the guarantee period has expired only original parts and accessories may be used.

The guarantee is only valid when the STR-1 control system has been used in accordance with the manufacturer's instructions. The boundary values given in the technical specifications must NOT be exceeded under any circumstances.

Supplementary safety regulations

When installing, using or carrying out maintenance work all binding health and safety regulations should be followed. Particular attention should be paid to the following:

1. European Standards
2. Fire regulations
3. Accident avoidance regulations



GENERAL COMMENTS REGARDING HAZARDS AND SAFETY PRECAUTIONS



The following comments serve as general guidelines to the application of INEL drivers with other devices. These guidelines must always be adhered to when installing and operating these devices



Warning – this signal warns of possible damage to the control system or other equipment if appropriate safety measures are not taken.

- Before installing the control system and setting the end switches check all bolt connections are properly fastened.

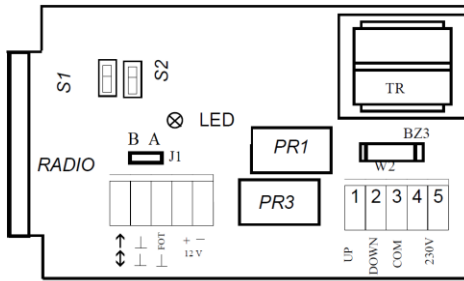
Danger – this signal indicates danger to the user's life and health if appropriate safety measures are not taken.

- Follow all health and safety regulations relevant to the equipment (e.g. gates, roller blinds) used.
- When changing fuses the equipment must be first disconnected from the mains, the fuses changed and only then may the equipment be reconnected to the mains.
- The SSN-04 system should be installed in accordance with appropriate safety regulations and with appropriate safety devices.
- INEL equipment connected to the mains beyond a building's safety fuse system needs to be installed with its own safe disconnecting devices (e.g. safety fuses and safety switches) in such a way so as to ensure that all the units may be easily and safely cut off from the mains.
- Electric wiring and cables should be regularly checked to ensure the insulation is intact and there are no breaks in the wire.
- If any damage to the wiring is found, the unit should be immediately disconnected from the mains and the damaged wiring replaced.
- Before connecting any equipment, one should first make sure that it is adapted to be used with the local voltage in the mains.

PERSONAL SAFETY WARNING

- Do not allow children to play with any of the control devices.
- Keep all remote control devices out of the reach of children.
- Observe the opening or shutting of the blinds, shutters, awnings or gates and ensure all persons stand clear until the operation is completed.
- Control system operators need to undergo preliminary instruction and training and also be made aware of all the potential dangers that can be encountered. A person should only be authorized to use the control system only once the employer, administrator or owner is satisfied that that person has been properly instructed.

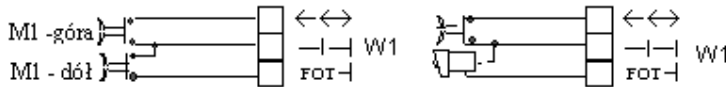
STR-1 UNIVERSAL ROLLER BLIND AND GATE CONTROLLER



CONTROLLER STR-1

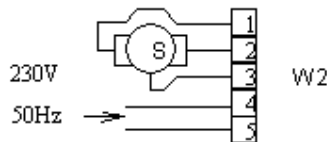
- S1, S2 - teaching buttons (see *programming*)
- PR1 and PR3 - relays
- LED - indicator diode (see *programming*)
- TR - power transformer
- W1 - connections for the manual switch and photocell
- W2 - connection for the motor and main power
- BZ3 - fuse (3.15 A)

STR-1



Directional mode

Sequential mode



connect via 6A residual current circuit breaker with 30mA sensitivity

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W1- A B Top manual switch (or power switch in sequential mode)

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W1- common switch

W1- FOT Bottom manual switch (or NO photo cell in sequential mode)

W2-1..... Drive cable for opening

W2-2..... Drive cable for closing

W2-3..... Common drive cable

W2-4..... Power cable 230 VAC

W2-5..... Power cable 230 VAC

GENERAL DESCRIPTION.

The STR-1 controller controls the operation of drives fitted with 230 V AC motors. Drive control is available via manual switches or a remote control. Our offer includes PIL-02XB and PIL-04XB remotes. Both of them use variable codes. **For every controller a single channel from any remote control can be registered, and the maximum number of remotes registered to one controller is 15.** Thus, with a 4-channel remote you can operate four controllers with the capability of selective remote control.

The manual switch allows you to control the drive operation manually. There are two types of manual control. **Directional mode** (intended for controlling roller blind drives), where one manual switch is used for opening, and another one for closing the blind. Pressing any switch during the movement of the blind will stop the drive. This allows you to leave the blind at any degree of opening. The second mode is **sequential mode**, where one manual switch is used to move into sequential phases: stop, move up, stop, move down etc. Instead of the second manual switch you can connect a photocell. This mode is intended for controlling gate drives.

Moving the J1 jumper from A to B position will switch modes.

WARNING:

2- and 4-channel remote controls will use the cycle: move to one side, stop, move to the other side, stop et cetera. Therefore registering one button to several controllers (a group) can cause these controllers to perform different operations (some will close, some will open) after pressing that button (if, with the use of manual control, they were left in various positions or states).

CONNECTING CONTROLLERS.

In the directional mode, a manual power switch is connected to the AB, ground and FOT terminals of the W1 connector. This should be a monostable double switch. In the sequential mode, a manual monostable switch is connected to AB and ground terminals, and a normally open photocell is connected to the ground and FOT terminals. Connect power to terminals 4 and 5 of the W2 connector. Connect drive motor to terminals 1, 2 and 3 of the W2 connector.

PROGRAMMING THE CONTROLLER.

The controller is able to 'learn' and memorise max. 15 different codes. If you press and hold the S1 switch, the controller will switch into 'learning' mode. This will be indicated by the L5 indicator diode lighting up for ca. 1 second, after which it will give a series of 0.5 sec. flashes in the amount equal to the amount of currently memorised codes. If the controller has no codes in its memory, there will be no flashes. Now press (and hold for a while) a button on the remote, for which the code is to be memorised. When the controller accepts the remote code, the indicator LED will light up again for ca. 1 sec. and emit a series of flashes. If the quantity of flashed increased, this means the controller has 'learned' another code. If the quantity of flashes did not increase, then either the received code was already known to the controller, or the controller has already memorised 15 codes.

To return to normal operation mode, release the S1 switch - the indicator LED will light up for ca. 2 sec. The 'learned' codes are stored even if power is switched off and on again.

DELETING MEMORISED CODES.

If the controller is to 'delete' all codes it has learned, in 'learning' mode (i.e. while holding the S1 button), press the S2 button for a short while. The deletion of codes from the controller memory will be indicated by the indicator LED lighting up for ca. 1 sec. After deleting the codes you can return to normal operation mode by releasing the S1 and S2 switches.