

# **ST-01R ROLLER BLIND CONTROL UNIT**

## **Instructions for installation and use**

### **Safety guidelines**

#### **Basic guidelines**

The ST-01R controller 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 ST-01R controller 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 ST-01R controller 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 ST-01R controller 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 authorised to use the control system only once the employer, administrator or owner is satisfied that that person has been properly instructed.



It is not permitted to dispose of waste equipment together with other waste. Dispose only in specially designated areas. The household plays a key role in the recycling of waste equipment. By correct sorting of waste, including waste equipment and batteries, household members ensure that the equipment is not disposed together with household waste, but in specially designated areas, and thus may be used again after recycling.

## CONTROLLER DESCRIPTION

### ST-01R

The ST-01R controller is a device used to control locally or remotely the operation of roller blinds and shutters. The device is intended for flush mounting in a double depth wall box.

Local control is achieved with a manual button connected to the manual input. The controller has a deadman function - a short press of the manual on/off button starts a full cycle of opening or closing the roller blind (the time of applying voltage to the motor is factory set at 100 seconds).

Remote control is possible with the use of the following remote controllers: PIL-02/04XB, PIL-01PT, PIL-01/04NS, PIL-01/05/09/19DL, PIL-19/99DLT, PIL-01/05/09/19PM, PIL-19/99PMT, PIL-19/99MMT.

### ST-01RZ (shutter controller)

The controller allows for precise setting (changing angle) of shutter slats

locally with a manual button and remotely with remote controllers: PIL-01/04NS, PIL-05/09/19DL, PIL-19/99DLT, PIL-05/09/19PM, PIL-19/99PMT, PIL-19/99MMT.

The manual button has a dual function, depending on press duration:

- below 1 second - start with deadman function (100 seconds),
- longer than 1 second - short activation of the motor - setting slat angle.

When controlled remotely, the device receives commands from remote controllers operating in normal or shutter mode. Commands send in normal mode start the full opening or closing cycle. In shutter mode, every command starts a motor for a short time - setting slat angle.

### ST-01RS (light controller)

This controller allows for switching 230 V AC electrical receivers on and off without time limits.

It can be controlled locally with a manual button and remotely with remote controllers: PIL-02/04XB, PIL-01PT, PIL-01/04NS, PIL-01/05/09/19DL, PIL-19/99DLT, PIL-01/05/09/19PM, PIL-19/99PMT, PIL-19/99MMT.

The manual button operates in a loop - "on - off - on".

When controlled remotely, the device receives commands from remote controllers operating in normal mode. Remotes from the XB series operate in the "on - off - on" loop. Remotes from the PT, NS, PM and DL series work as follows:

- "up" - on,
- "stop" - off,
- "down" - on.

### Connecting ST-01R and ST-01RZ controllers

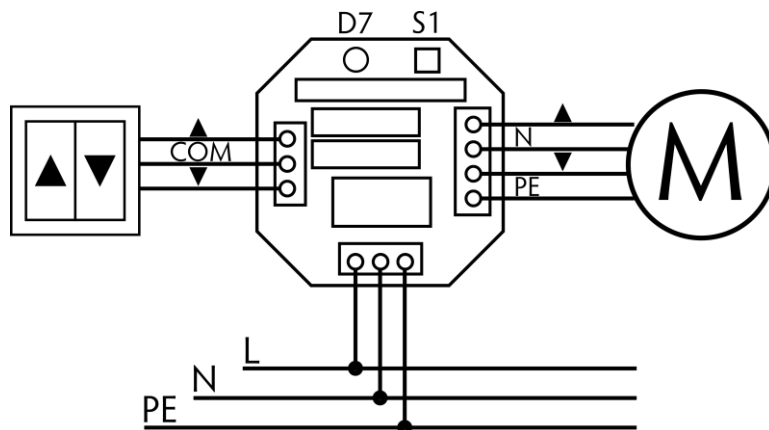
- L** installation L1 wire brown
- N** installation N wire blue
- PE** installation PE wire yellow-green

**MOTOR** motor connection

- PE** motor protective wire yellow-green
- ▲** motor up wire brown
- N** motor neutral wire blue.
- ▼** motor down wire black

**MANUAL** manual button connection

- ▲** to up button
- COM** to common terminal
- ▼** to down button



### WARNING:

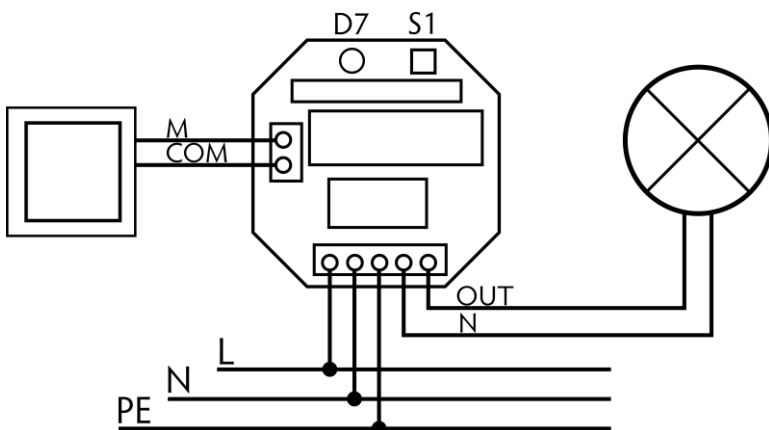
The shutter switch works by connecting terminals to the COM terminal.  
DO NOT CONNECT TO MAINS.

### Connecting ST-01RS controllers

- L** installation L1 wire
- N** installation N wire
- PE** protective wire
- OUT** receiver L wire
- N** receiver N wire

**MANUAL** manual button connection

- M** to Up button
- COM** to common terminal



### WARNING:

The shutter switch works by connecting terminals to the COM terminal.  
DO NOT CONNECT TO MAINS.

## **REGISTERING REMOTE CONTROLS**

Controlling the drive with any channel from any remote control connected to the ST-01R is possible after registering that channel for the given controller.

**There are two ways of accessing the programming option for ST-01R controllers:**

- 1. After pressing the S1 button on the controller.**
- 2. The other option is to enter the programming mode with a previously registered remote control.**

**Turn on the remote control and select the channel you wish to register.**

Press the S1 button on the controller, the D7 LED will light up green for ca. 10 seconds, during that time do the following:

- press the ▲ button on PIL-01/04NS, PIL-01/05/09/19DL, PIL-19/99DLT, PIL-01/05/09/19PM, PIL-19/99PMT, PIL-19/99MMT or
- press the button for the selected channel on PIL-02XB, PIL-04XB or
- press the shutter switch button on PIL-01PT

If the registration is successful, the D7 LED will make a number of red flashes equal to the number of registered channels.

To register more channels, repeat the procedure.

**If a remote control has already been registered,** subsequent channels of the same or another remote can be registered by entering programming mode:

- press the ▲ and ▼ buttons at the same time on PIL-01/04NS, PIL-01/05/09/19DL, PIL-19/99DLT, PIL-01/05/09/19PM, PIL-19/99PMT, PIL-19/99MMT. The motor connected to the controller will make a short up and down movement and then make a series of short up and down movements in the number equal to the number of programmed channels. The drive will remain in programming mode for the next 10 seconds.

To register a new channel of the same or another remote:

- press the ▲ button on PIL-01/04NS, PIL-01/05/09/19DL, PIL-19/99DLT, PIL-01/05/09/19PM, PIL-19/99PMT, PIL-19/99MMT or
- press the button for the selected channel on PIL-02XB, PIL-04XB or
- press the shutter switch button on PIL-01PT

If the registration is successful, the controller will make a series of short up and down movements with the drive to which it is connected.

**Warning: this method of programming is only available for controllers which have registered at least one channel on the remote control which will be used.**

### **Deleting registered channels.**

If you need to delete all registered channels, press and hold the S1 button until the D7 LED changes colour from green to red (about 10 seconds). Then release the S1 button. **Note: it is not possible to delete individual channels.**

**Deleting channels is also possible if the controller is not accessible** (e.g. flush mounted). Deletion can be conducted with the following remote controls: PIL-01/04NS, PIL-01/05/09/19DL, PIL-19/99DLT, PIL-01/05/09/19PM, PIL-19/99PMT, PIL-19/99MMT. All channels will be deleted except for the one used for deleting. The channel which has not been deleted will act as a technical channel to be used to register more remote controls.

To delete channels, press the ▲ and ▼ buttons at the same time - the controller will make the roller blind move up and down several times - then press the ▲ and ▼ buttons at the same time again. All channels registered in the controller will be deleted, except for the technical channel.



Warning - for safety reasons and due to the possibility of damaging the device with static electricity, controller programming and registered code deletion should be performed on a workbench with appropriate safety and protective measures in place against electric shock and static electricity.

## **CONTROL UNITS ARE COMPATIBLE WITH REMOTE CONTROLS UNITS**

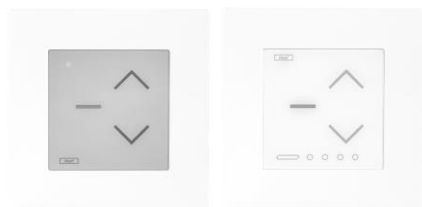
### **- HAND-HELD:**

PIL-01/05/09/19PM, PIL-19/99PMT, PIL-01/05/09/19DL, PIL-19/99DLT, PIL-19/99MMT



### **- WALL-MOUNTED:**

PIL-01NS, PIL-04NS



### **- KEYCHAIN:**

PIL-02XB, PIL-04XB



### **- FLUSH-MOUNTED:**

PIL-01PT

