

TUBULAR MOTOR WITH RADIO RECEIVER

Installation and operating instructions

Safety guidelines

GENERAL GUIDELINES

Tubular motor with radio receiver is configured by default to guarantee safe installation and operation, provided that all guidelines and relevant safety and accident prevention regulations are followed.

Installation and repairs must be carried out by a trained and qualified professional. Do not modify or change the tubular motor with radio receiver. All warranty repairs must be carried out by the manufacturer. Use genuine spare parts and accessories only. Operational safety of the tubular motor with radio receiver can only be ensured if used as intended. Limit values provided in the specification must not be exceeded under any circumstances. Follow relevant safety and accident prevention regulations when installing, commissioning and maintaining the control unit. In particular, observe the following:



1. Fire safety regulations;
2. Accident prevention regulations

GENERAL INFORMATION ON HAZARDS AND SAFETY MEASURES

The following are the general guidelines for use of INEL controllers with other devices. Follow the guidelines when installing and operating these devices.



CAUTION - warning against possible damage to the controllers or other devices if no precautions are taken:

- **VoCheck if all screw connections are secure before installing the tubular motor with radio receiver and setting the limit switches.**
- **Danger - indicates a threat to life and health if no precautions are taken.**



- Comply with relevant safety and accident prevention regulations.
- For INEL devices with permanent power connection to the controller, in addition to fuse protection, use an isolation switch to safely cut off the power supply (e.g. fuse cut-off switch).
- Inspect power wires and cables regularly for damaged insulation and conductor continuity.
- Cut off the power supply before replacing damaged cables.
- Check if the local voltage supply parameters correspond to the device parameters.

WARNING - IMPORTANT FOR THE SAFETY OF PERSONNEL:

- **do not allow children to play with control devices;**
- **keep the remote controls out of reach of children;**
- **observe the moving roller blind and keep people away until it is fully opened or closed;**
- **roller blind operators must be instructed in device operation and related risks. The operator is deemed to have been trained if the employer, administrator or owner instructed and gave permission to the operator to operate the roller blind..**

DISPOSAL OF WASTE EQUIPMENT

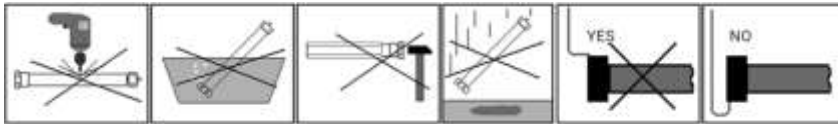


Do not dispose of with household waste. Dispose of waste according to applicable legislation. Households play a key role in the recycling of waste equipment. Waste segregation, including waste equipment and batteries, guarantees that the equipment is not disposed of with household waste but is handed over to a designated collection point for recycling.

INSTALLATION INSTRUCTIONS

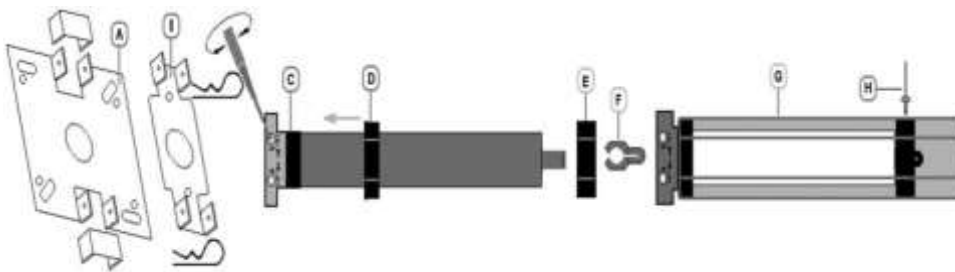
Safety

- This product must be installed by qualified personnel.
- The weight of the roller blind must not exceed the maximum load carrying capacity of the tubular motor specified in the table.
- Correct cable installation (loop facing down) will protect the tubular motor against water damage.
- Do not drill holes in the motor housing.
- Protect the motor against contact with liquids.
- Avoid shocks, impacts and damage to the motor.
- Do not connect more than disconnector to a single motor.
- Do not connect more than one motor to a single disconnector.



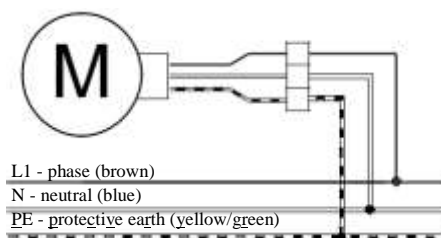
Installing motor

- Attach the bracket (A) to the side of the roller blind cassette.
- Connect the adapter (D) to the thrust ring of the tubular motor (C).
- Connect the driver (E) to the motor axis and secure it with a cotter pin (F).
- Slide the entire motor into the roller tube (G) of appropriate length.
- Fix the tubular motor to the roller tube with screws or rivets (H).
- Insert the roller tube with the motor to the roller blind cassette.



CAUTION: The motor is fitted with an internal thermal breaker that allows the roller blind to work continuously for approx. 4 minutes, after which the temperature inside the motor will exceed the permissible value and trip the thermal breaker. Roller blind can be operated again after the motor cools down (up to twenty minutes.) The thermal switch guarantees long service life of the tubular motor.

Electrical connections



**BE SURE TO TURN OFF THE POWER
BEFORE MAKING ANY CONNECTIONS!**

ADJUSTING LIMIT SWITCHES

Adjust the electromechanical limit switches with knobs on the motor head to set the end positions of the roller blind. The arrows by the knobs indicate motor direction and the adjustment screw for that direction. If the roller blind is installed on the motor side opposite to the fitter (standard), turn (up arrow) to adjust the bottom position of the roller blind or turn (down arrow) to adjust the top position of the roller blind. Turn the knob towards {+} to increase or turn towards {-} to decrease the range of movement in this direction.

Setting bottom position:

Lower the roller blind until it stops at the default bottom position. If the roller blind does not stop before reaching its bottom position, stop the tubular motor, raise the blind, rotate the knob a few dozen times towards {-} and try again. In extreme cases you might need to do this several times.

Rotate the knob (↑) towards {+} to set the required position.

If the position is too low, raise the roller blind, rotate the knob several times towards {-} and repeat starting from the first step.

Setting top position:

1. Raise the lower blind until it stops at the default top position. If the roller blind does not stop before reaching its top position, stop the tubular motor, lower the blind, rotate the ↓ knob a few dozen times towards {-} and try again. In extreme cases you might need to do this several times.
2. Rotate the knob (↓) towards {+} to set the required position.
3. If the position is too high, lower the roller blind, rotate the knob several times towards {-} and repeat the procedure starting from the first stage.

COMPATIBLE REMOTE CONTROLS

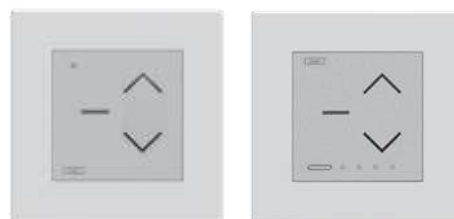
- PORTABLE:

PIL-01/05/09/19PM, PIL-19/99PMT, PIL-01/05/09/19DL, PIL19/99DLT, PIL-19/99MMT



- WALL-MOUNTED:

PIL-01NS, PIL-04NS



- KEYCHAIN:

PIL-02XB, PIL-04XB



- FLUSH-MOUNTED:

PIL-01PT



REGISTERING REMOTE CONTROLS

A tubular motor can be controlled by a remote control after registering a channel on the remote control to the tubular motor.

Enter the programming mode using one of the following methods:

1. Each time, after connecting to the mains, the tubular motor enters the programming mode for 10 seconds.
2. Enter the programming mode using a previously registered remote control.

For new tubular motors or if the previous remote control was lost, a new remote control can be registered as follows:

Start the remote control and select the channel to register the tubular motor.

Connect the tubular motor to the mains (230 VAC). Within 10 seconds:

- press ▲ and ▼ simultaneously on the remote (PIL-01/04NS, PIL-01/05/09/19DL, PIL-01/05/09/19PM, PIL-19/99PMT) or
- press „1” and „2” simultaneously (PIL-02XB) or
- press „C” and „D” simultaneously (PIL-04XB) or
- press PROGRAM (PIL-01PT).

The tubular motor will move up and down. Register the channel within the next 10 seconds:

- for PIL-01/04NS, PIL-01/05/09/19DL, PIL-01/05/09/19PM, PIL-19/99PMT, press ▲ **for the channel you want to register**,
- for PIL-02XB, PIL-04XB, press the channel button you want to register,
- for PIL-01PT, press the connected roller blind switch.

The registration will be confirmed by a short up/down movement.

CAUTION: The following procedure will erase all previously registered channels from the memory. This will allow the remote control to be registered to the tubular motor if no previously registered remote control is available (new tubular motor or lost/stolen remote control).

CAUTION: To easily change the channel number in any controller, each tubular motor must be assigned a unique channel number. It allows programming without switching off the power supply to other tubular motors.

If a registered remote control is available the remaining channels of the same or different remote control must be registered without switching the power supply off. Select programming mode of the tubular motor using the registered remote control:

- For **PIL-01/04NS, PIL-01/05/09/19DL, PIL-01/05/09/19PM, PIL-19/99PMT** simultaneously press ▲ and ▼. **The roller blind will move up and down and make a series of short up and down movements (number of movements corresponds to the channel number selected).** Tubular motor remains in the programming mode for the next 10 seconds. In programming mode, press ▲ for the selected channel (PIL-01/04NS, PIL-01/05/09/19DL, PIL-01/05/09/19PM, PIL-19/99PMT, PIL-19/99DLT) to register a new channel of the same or new remote.
- For **PIL-02XB**, press „1” and „2” simultaneously; for **PIL-04XB**, press „C” and „D” simultaneously. The roller blind will move up and down. Press the key already registered for the remote control. The roller blind will move up and down and make a series of short up and down movements (number of movements corresponds to the channel number selected.) Tubular motor remains in the programming mode for the next 10 seconds. In programming mode, press the selected channel button (PIL-02XB/PIL-04XB) to register a new channel of the same or new remote.

You can register any channel to any tubular motor provided that a previously registered remote control is available.

CAUTION: After power failure, the tubular motor will resume normal operation after approx. 10 seconds.

Refer to the user manual for the remote control.

DELETING STORED CHANNELS

Press ▲ and ▼ at the same time for the selected channel of the registered remote control to delete the stored channels. The roller blind will move up and down several times. Press ▲ and ▼ at the same time. The roller shutter will move up and down once. All channels, except for the channel of the remote used in the procedure, will be deleted.

CHANGING ROLLER BLIND DIRECTION

(for PIL-01/04NS, PIL-01/05/09/19DL, PIL-19/99DLT, PIL-01/05/09/19PM, PIL-19/99PMT, PIL-19/99MMT)

To change the roller blind direction (roller blind movement direction does not match the directions on the remote control), press ▲ and ▼ simultaneously on a previously registered remote control to enter the programming mode and press STOP on the same remote control.



Caution! For safety reasons and due to possible damage caused by electrostatic discharge, motor programming and code resetting must be carried out in workshop conditions where proper precautions and safety measures against electric shock and electrostatic discharge can be taken.