Non-compliance with the specification might cause risk for life or health and can determine proper work of the blind.
We strongly recommend to comply with the specification.
Installation of the tubular motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence (SEP - Association of Polish Electrical Engineers) or equal license.
Transmitters are compatible with all YOODA SMART HOME brand devices.
35EV/S and 45EV/S series tubular motors are compatible with all YOODA SMART HOME brand devices.

EV/S tubular motors are motors with two-way communication.

1. General information

EV / S motors are motors with two-way communication and a radio receiver. They have a mechanism for detection of obstacles, so that the motor stops if sensing resistance in its path. Detection of obstacles works in both directions, with the use of lock hangers as well as with springy hangers.
Electronic limit position switches set by using the remote control provide ease of programming. Motors provide the ability to set the third position.
For EV / S motors, it is possible to connect an impulse switch that controls the motor in "step by step" mode.
EV/S series tubular motors are compatible with all YOODA SMART HOME brand devices.

Radio receiver memory:
up to 10 transmitters

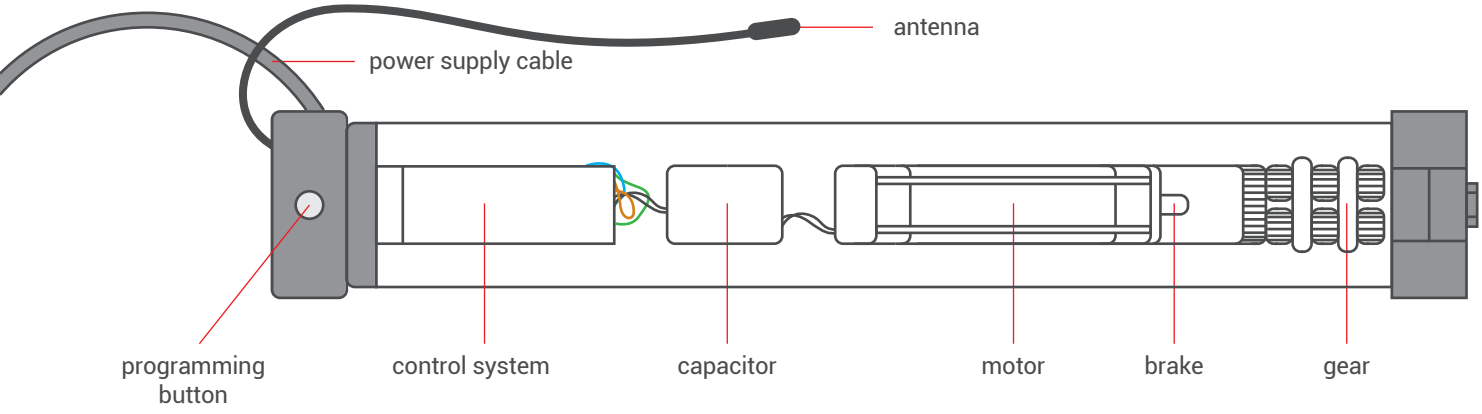
Max time of continous work:
4 min.

Power supply:
230 V / 50 Hz

Operating temperature:
from -5°C to 50°C

Protection degree:
IP 44

Illustrations from the top:
1. Tubular motor 35 EV/S with obstacle detection
2. Tubular motor 45 EV/S with obstacle detection



Maximal time of continuous work is 4 minutes. After that time thermal protection will be activated preventing motor form overheating. After that motor will be disabled for about 20 minutes until it cools down.

PROGRAMMING BUTTON FUNCTIONS:

1. Pressing the programming button briefly for approximately 1 second controls the drive step by step.
2. Press the programming button for 2 seconds to enter the first transmitter programming mode. If the drive has no end positions set, the transmitter is added first. Otherwise, it is added as another transmitter without removing previously programmed transmitters.
3. Pressing the programming button for 6 seconds changes work motor direction.
4. Pressing the programming button for 11 seconds deletes the motor memory and restores the factory settings.

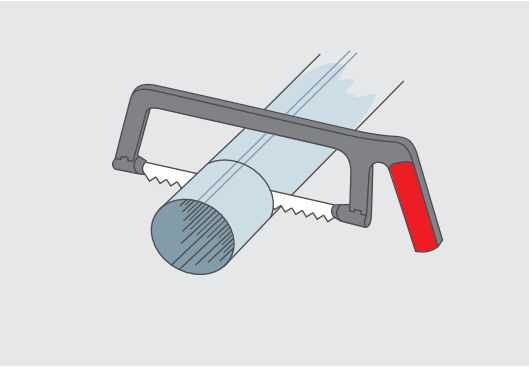
2. Safety measures

Before installing or using motor please read the following instruction. The installer must comply with the standards and regulations in force in the country where the appliance will be installed and provide information to users about the conditions and maintenance of the device. Failure to follow these instructions can present risk to life and health, or invalid functioning of the roller shutter. This also results in the loss of warranty rights.

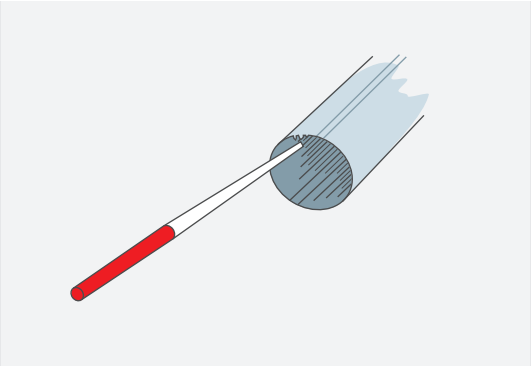
- Motors torque parameter should be adequate to the weight of the roller shutter curtain.
- Wiring should be mounted in a way preventing water from entering the tubular motor, as well as for moving roller shutter curtain to make any damage.
- Electrical system control should be performed regularly to detect any signs of use or damage of the motor.
- Electrical supply needs to be disconnected before conducting any maintenance, cleaning and/or repair work.
- All contact of the motor with any liquids should be reduced to minimum.
- No tools should be used when placing motor in the tube.
- During the adapter montage special attention must be paid not to damage the motor.
- Motor and its control system should be kept out of children reach.

3. Placing motor in the tube

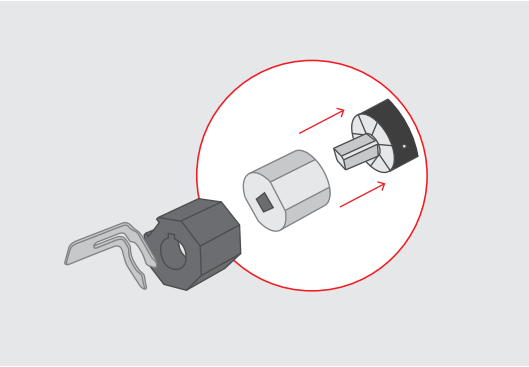
Motor should be mounted in places protected from unfavourable weather conditions.



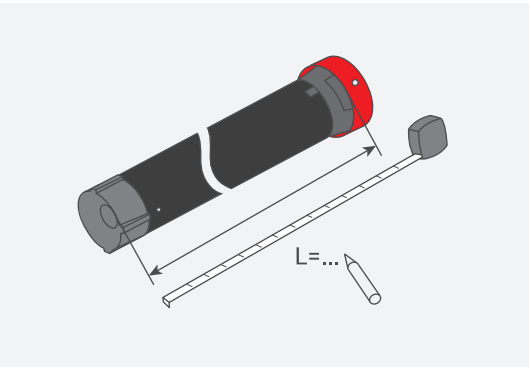
1. Cut the tube to the proper length.



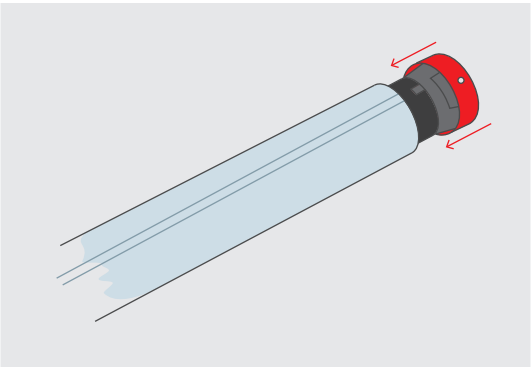
2. Deburr the edges and remove the metal residue.



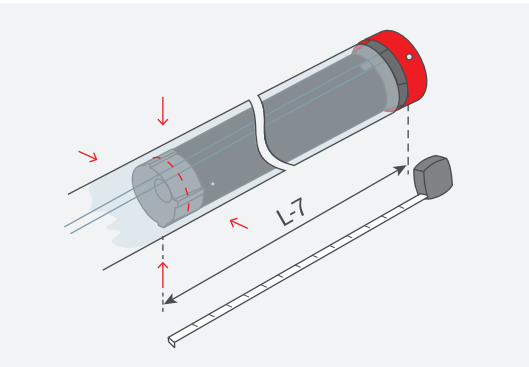
3. Place the adaptation on the motor.



4. Measure the distance (L) between the inner edge of motors head and the end of the motors adaptor.

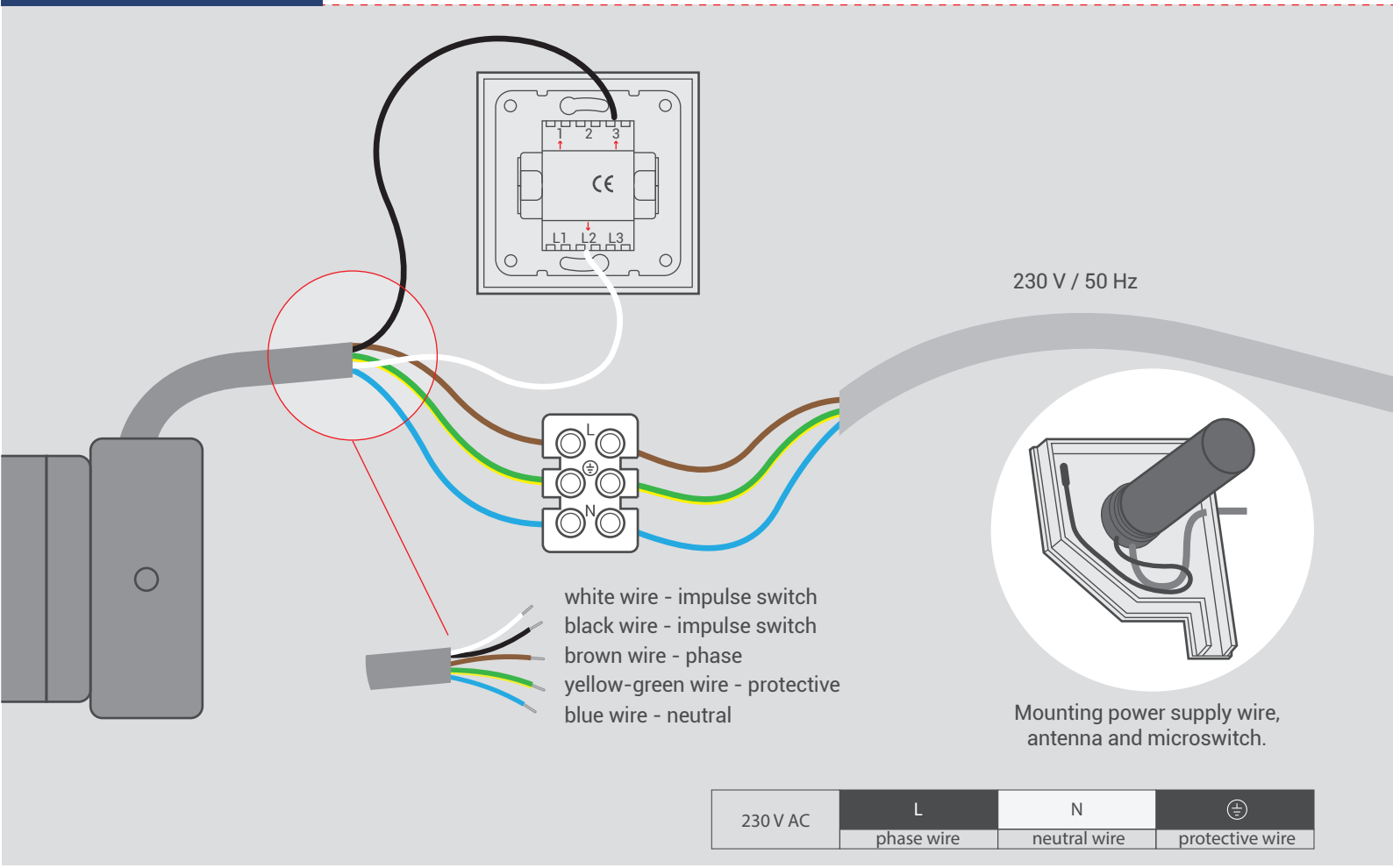


5. Insert the motor into the tube up to the point of connection between the edge of the tube and the inner edge of the motors head.



6. Secure the tube to the coupling part of the adaptation using 4 screws or rivets, placed at L-7 mm distance from the inner edge of the motors head.

4. Connection

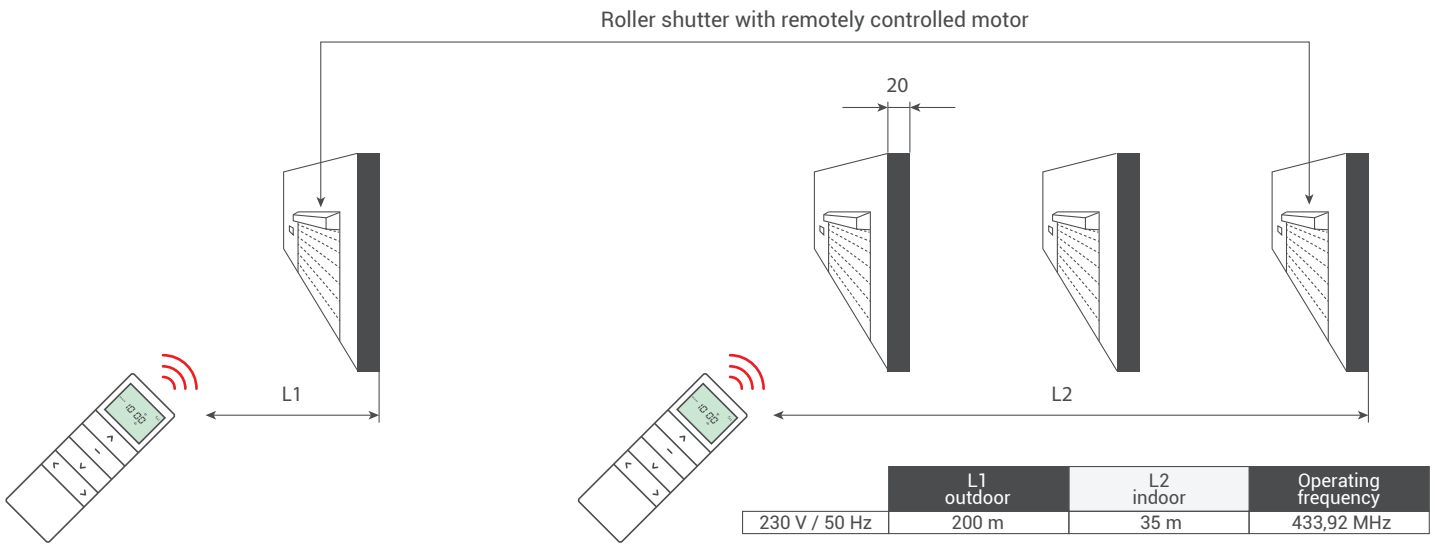


230 V AC	L	N	⏚
	phase wire	neutral wire	protective wire

Installation of the tubular motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence (SEP - Association of Polish Electrical Engineers) or equal license. Device is designed to operate in places shielded from unfavourable weather conditions. Motor should be installed in accordance with all provisions of regional law and professional standards. All cables connecting power receiver with electric source should be protected from overload and short-circuits effects with devices automatically disconnecting power. Device should be powered with a separate source and protected only with a fast-blow fuse (never slow-blow fuse). Creating electrical system using inadequate fuse may result in loosing rights under the provisions of warranty. When connecting device to power source with cables with adequate cross-section should be used. Long-lasting output load capacity table should be the ground for choosing adequate cables.

5. Range

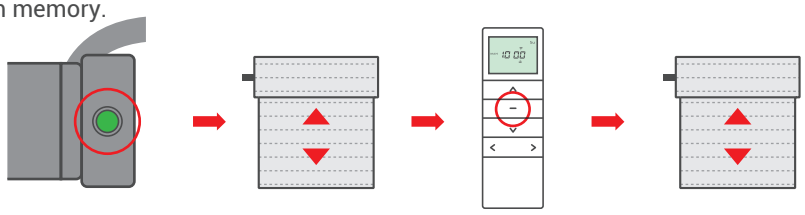
Radio receiver range is a variable value and can differ from declared values depending on conditions in which device operates. Possible sources of changes in range are building construction, interference caused by other radio transmitters etc.



	L1 outdoor	L2 indoor	Operating frequency
230 V / 50 Hz	200 m	35 m	433,92 MHz

6. Programming first transmitter

1. Longer than 6 seconds pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.
2. If the end positions are not set, the programming of the first transmitter results in the deleting of pre-programmed transmitters from memory.



Turn on power supply or press programming button on motors head (for 2 sec.) when power is on.

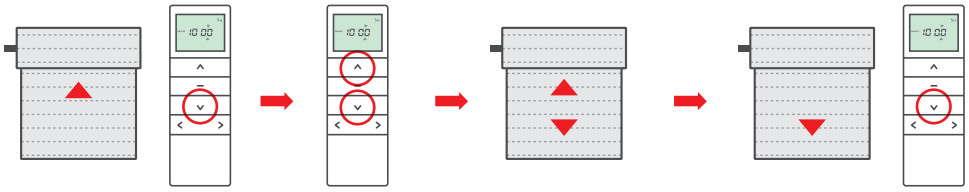
Motor will make a sound. Roller shutter will make an up/down move.

Press STOP button for a 2 seconds on the remote.

Roller shutters will make 2 short up/down movements. Motor will make several sounds.

7. Changing motors direction

METHOD 1:
Changing the work motor direction using this method is only possible before the limit positions are programmed.



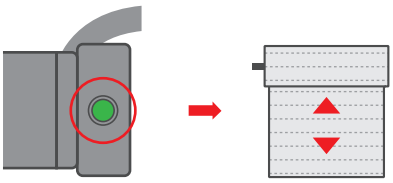
When pressing DOWN button roller shutter moves up.

Simultaneously press and hold UP and DOWN buttons for 2 seconds.

Roller shutter will make short up/down movements.

When pressing DOWN button roller shutter moves down.

METHOD 2:



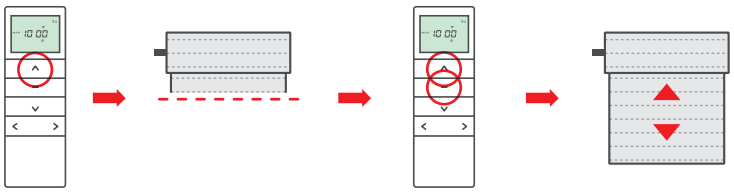
Press and hold programming button for 6 seconds on motor head.

Roller shutter will make short up/down movements. Motor will make 2 short sounds.

8. Programming limit positions

1. If the end positions are not set, the motor is in pulse mode.
2. Longer than 2 minutes pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.

UPPER LIMIT POSITION:



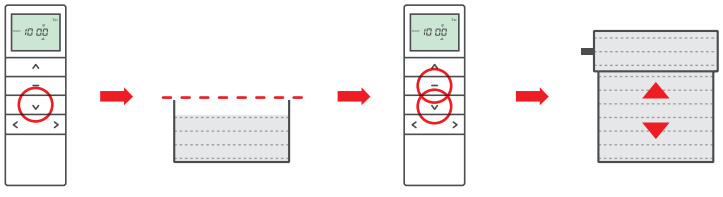
Press UP button

We stop the motor in the upper limit position.

Simultaneously press and hold UP and STOP buttons for 2 seconds to confirm upper limit position.

Roller shutters will make 2 short up/down movements. Motor will make several sounds.

LOWER LIMIT POSITION:



Press DOWN button.

We stop the motor in the lower limit position.

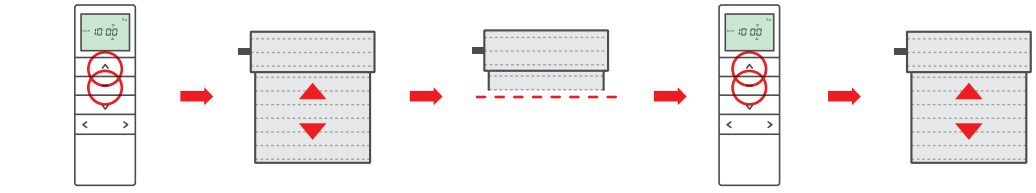
Simultaneously press and hold DOWN and STOP buttons for 2 seconds to confirm lower limit position.

Roller shutters will make 2 short up/down movements. Motor will make several sounds.

9. Regulation limit positions

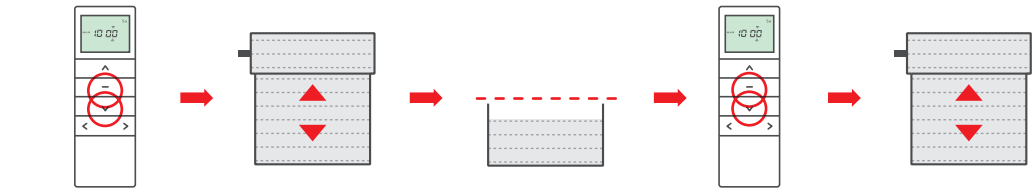
1. In case of setting the limit positions, the upper or lower limit position can be corrected.
2. Longer than 2 minutes pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.

REGULATION OF THE UPPER LIMIT POSITION:



Simultaneously press and hold UP and STOP buttons for 5 seconds. | Motor will make a sound. Roller shutter will make short up/down movements. | We set the new upper limit position. | Simultaneously press and hold UP and STOP buttons for 2 seconds to confirm new upper limit position. | Roller shutters will make 2 short up/down movements. Motor will make several sounds.

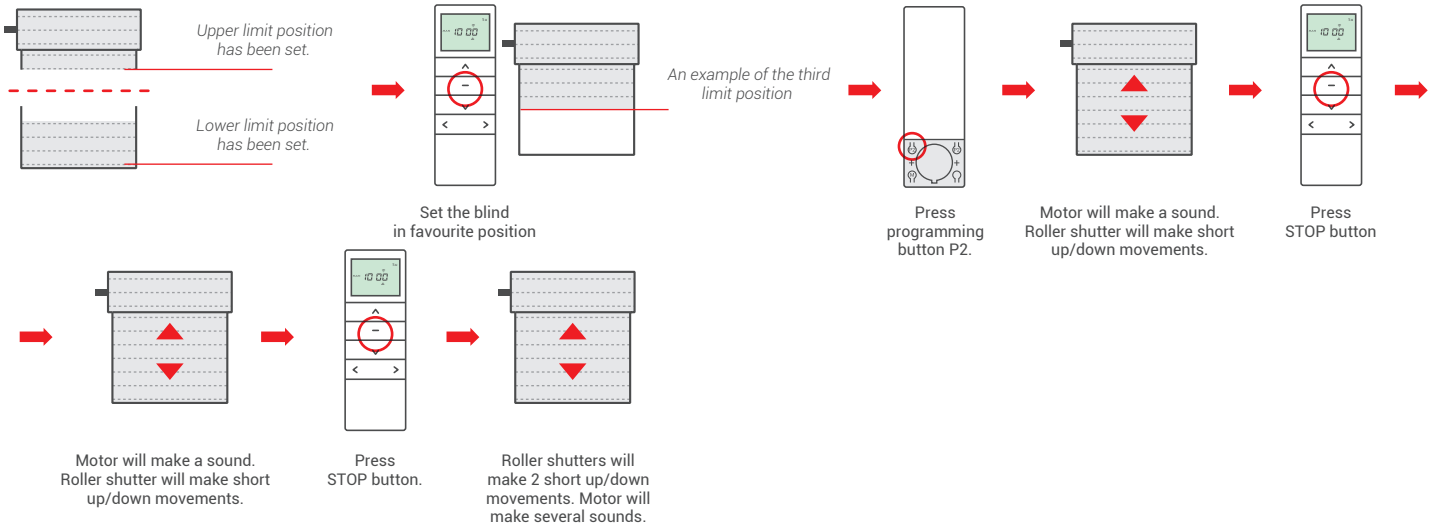
REGULATION OF THE LOWER LIMIT POSITION:



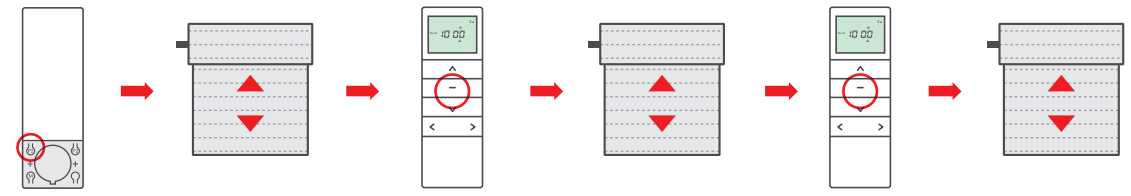
Simultaneously press and hold DOWN and STOP buttons for 5 seconds. | Motor will make a sound. Roller shutter will make short up/down movements. | We set the new lower limit position. | Simultaneously press and hold DOWN and STOP buttons for 2 seconds to confirm new lower limit position. | Roller shutters will make 2 short up/down movements.Motor will make several sounds.

10. Programming the third limit position

1. After setting the upper and lower limit positions, it is possible to set the third position (favorite) between those positions.
2. Hold the STOP button for 3 seconds to set the blind in third limit position.

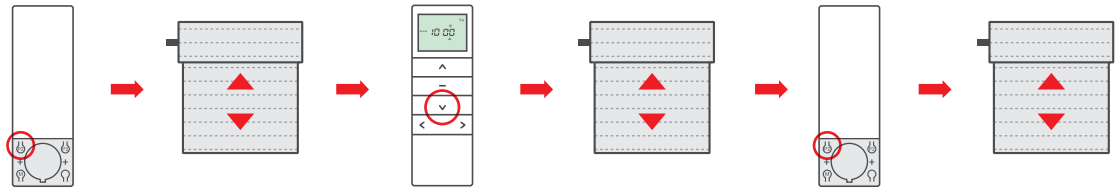


11. Removing third limit position



Press programming button P2. | Motor will make a sound. Roller shutters will make short up/down movements. | Press STOP button. | Motor will make a sound. Roller shutters will make short up/down movements. | Press STOP button. | Motor will make a sound. Roller shutters will make short up/down movements.

12. Removing limit positions

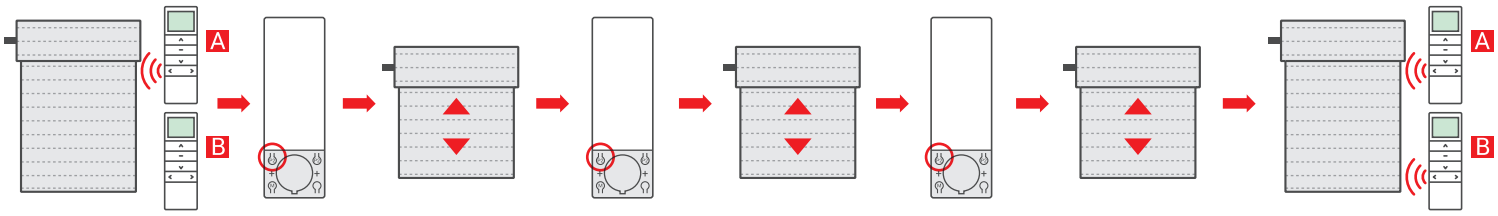


Press programming button P2. | Motor will make a sound. Roller shutters will make short up/down movements. | Press DOWN button. | Motor will make a sound. Roller shutters will make short up/down movements. | Press programming button P2. | Roller shutters will make 2 short up/down movements. Motor will make a several short sounds.

13. Programming another transmitter

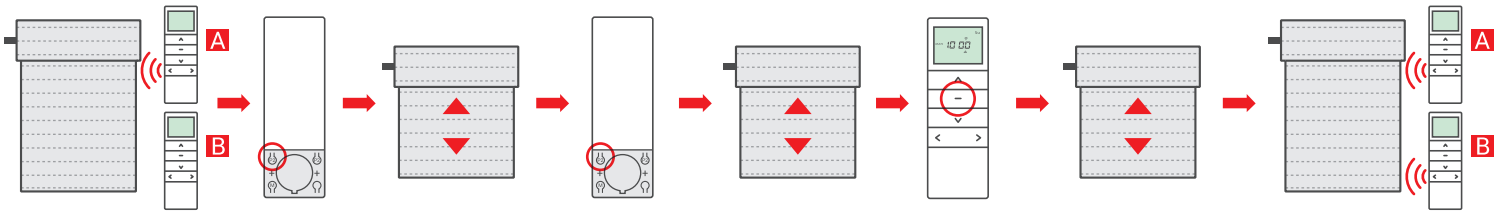
1. Receiver can be controlled by up to 10 transmitters.
2. Longer than 6 seconds pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.

METHOD 1:



Press programming button P2 on the A remote control. | Motor will make a sound. Roller shutters will make short up/down movements. | Press programming button P2 on the A remote control. | Motor will make a sound. Roller shutters will make short up/down movements. | Press programming button P2 on the B remote control. | Roller shutters will make 2 short up/down movements. Motor will make a several short sounds. | Remote control has been programmed.

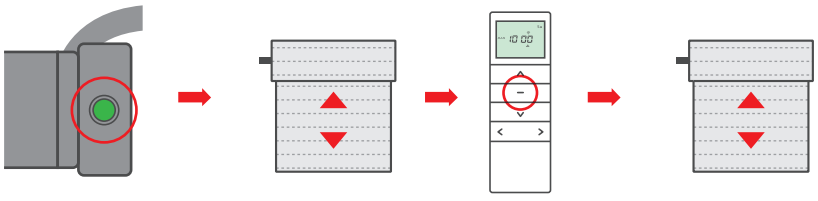
METHOD 2:



Press programming button P2 on the A remote control. | Motor will make a sound. Roller shutters will make short up/down movements. | Press programming button P2 on the A remote control. | Motor will make a sound. Roller shutters will make short up/down movements. | Press STOP button on the B remote control for 2 seconds. | Roller shutters will make 2 short up/down movements. Motor will make a several short sounds. | Remote control has been programmed.

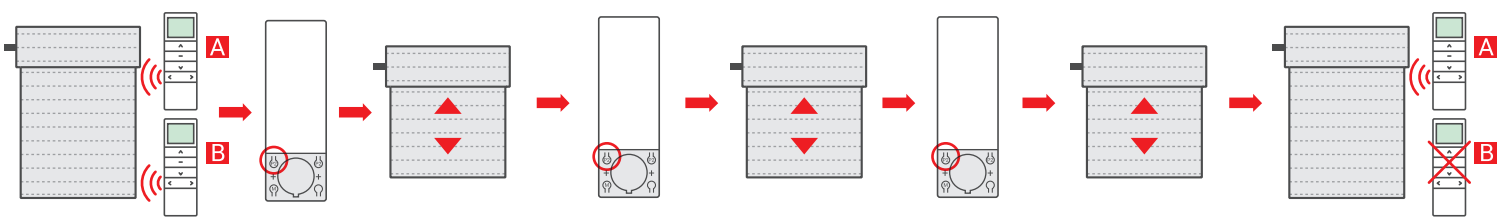
METHOD 3:

Adding a transmitter by this method is possible after programming the limit positions.



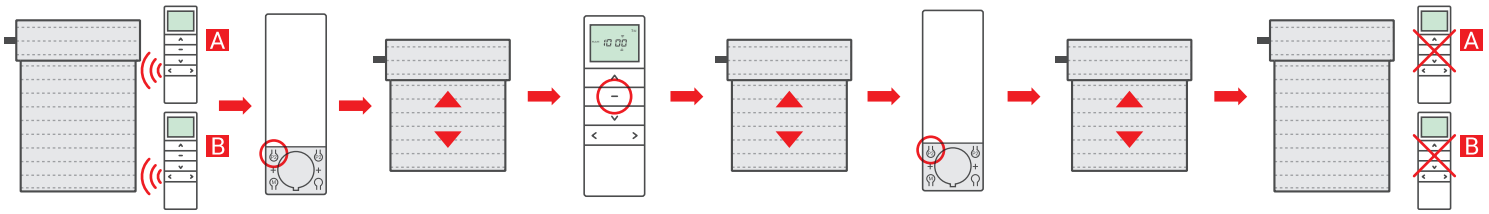
Press and hold programming button for 2 seconds on motor head. | Motor will make a sound. Roller shutters will make short up/down movements. | Press and hold STOP button on the B remote control for 2 seconds. | Roller shutters will make 2 short up/down movements. Motor will make a several short sounds.

14. Deleting another transmitter



Press programming button P2 on the A remote control. | Motor will make a sound. Roller shutters will make short up/down movements. | Press programming button P2 on the A remote control. | Motor will make a sound. Roller shutters will make short up/down movements. | Press programming button P2 on the B remote control. | Roller shutters will make 2 short up/down movements. Motor will make a several short sounds. | Remote control has been removed.

15. Deleting all transmitters



Press programming button P2 on the A remote control.

Motor will make a sound. Roller shutters will make short up/down movements.

Press STOP button.

Motor will make a sound. Roller shutters will make short up/down movements.

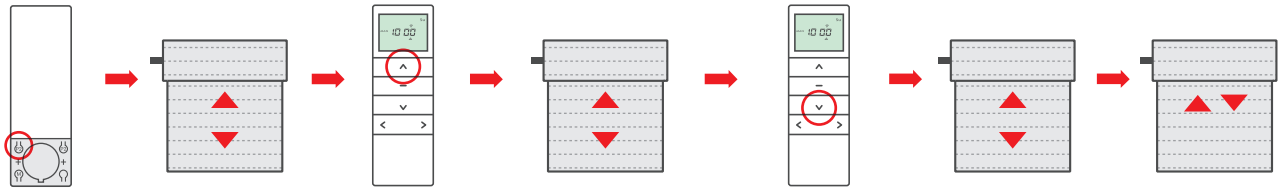
Press programming button P2.

Roller shutters will make 2 short up/down movements. Motor will make a several short sounds.

All active transmitters have been removed.

16. Activating impulse mode

1. Longer than 6 seconds pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.
2. To activate impulse mode follow the procedure below. To deactivate impulse mode repeat this procedure.



Press programming button P2 on any remote control.

Roller shutters will make short up/down movements. Motor will make a sound.

Press UP button.

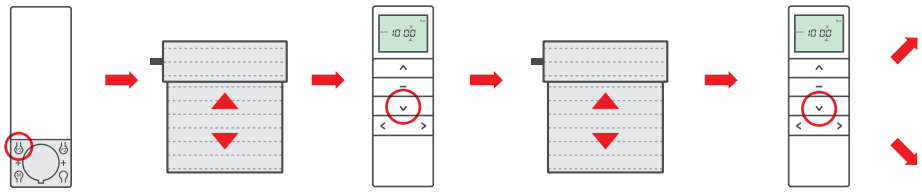
Roller shutters will make short up/down movements. Motor will make a sound.

Press DOWN button.

Roller shutters will make short up/down movements. Motor will make 2 sounds.

When you press the direction button once on the remote control, the motor will make a short move.

17. Choosing a reaction to obstacle detected



Press programming button P2.

Roller shutters will make short up/down movements. Motor will make a sound.

Press DOWN button.

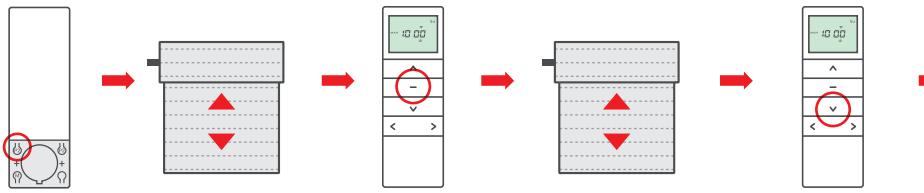
Roller shutters will make short up/down movements. Motor will make a sound.

Press DOWN button.

If the motor will perform two short movements up / down and will make a few sounds, it means that the reaction 1 is started : when an obstacle is detected the roller shutter will stop.

If the motor will performn short movement up / down and will make a sound, it means that the reaction 2 is started : when an obstacle is detected the roller shutter will move in the opposite direction.

18. Choosing obstacle detected operation mode



Press programming button P2.

Roller shutters will make short up/down movements. Motor will make a sound.

Press STOP button.

Motor will make a sound. Roller shutters will make short up/down movements.

Press DOWN button.

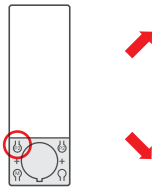
If the motor performs a short up / down movement and make a sound, it means that the drive is in mode 1 : The sensitivity of obstacle detection is reduced to 20 cm from the upper and lower limit positions.

If the motor performs two short up / down movements and make two sounds, it means that the motor is in mode 2 : The sensitivity of obstacle detection is reduced to 10 cm from the upper and lower limit positions.

If the motor performs three short up / down movements and make three sounds, it means that the motor is in mode 3: The sensitivity of obstacle detection is reduced along the entire height of the roller shutter.

19. Function of signal transfering

If signal transfering function is on, the motor after receiving signal will sends it back.



Press and hold P2 programming button for 5 seconds.

If the motor performs two short movements in both directions and makes several sounds, the signal transfer function is activated.

If the motor performs a short movement in both directions and a make a sound, the signal transfer function is deactivated.