

433 MHz



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.

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

1. General information



Tubular motor 45 EM/S with obstacle detection

The EM / S motors type are motors with 2 way communication, a radio receiver and an emergency opening mechanism that allows opening or closing the gate or roller shutter in the event of a power failure. 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.

Electronic limit position switches set by using the remote control provide ease of programming. Motors provide the ability to set the third position.

EM/S series tubular motors are compatible with all YOODA SMART HOME brand devices.

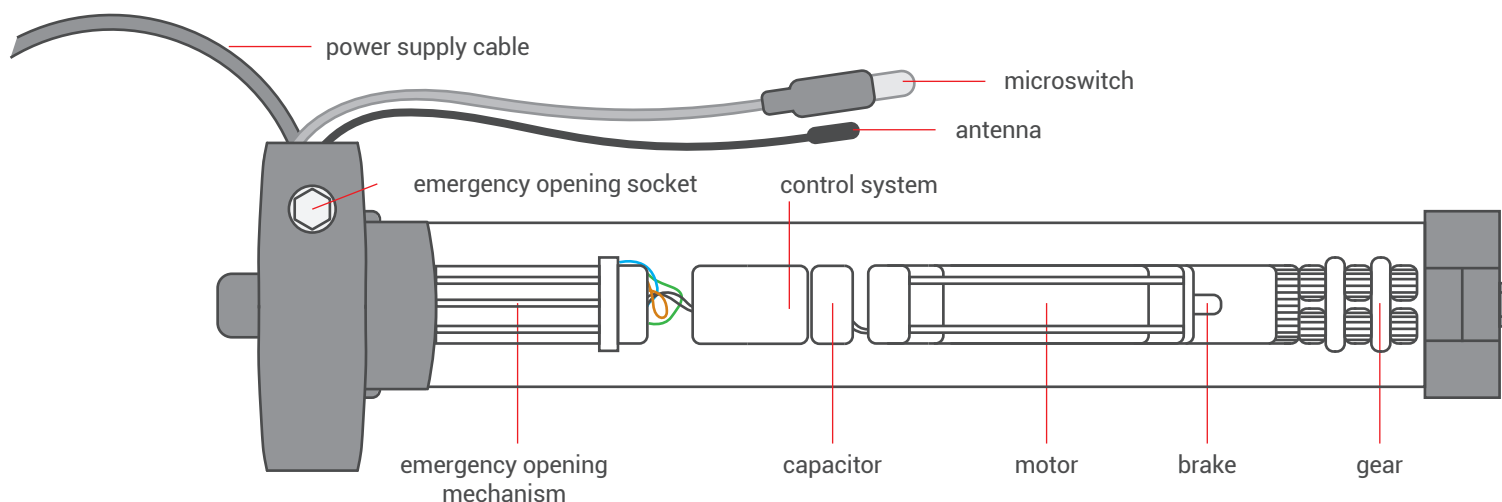
Radio receiver memory:
up to 10 transmitters

Max time of continuous work:
4 min.

Power supply:
230 V / 50 Hz

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

Protection degree:
IP 44



Maximal time of continuous work is 4 minutes. After that time thermal protection will be activated preventing motor from 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. Pressing the programming button for 2 seconds enters the motor into the transmitter programming mode.
3. Pressing the programming button for 6 seconds activates the function of blocking the radio signal. To deactivate the function, briefly press the programming button on the motor head or disconnect motor power.
4. Pressing the programming button for 10 seconds changes work motor direction.
5. Pressing the programming button for 14 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.

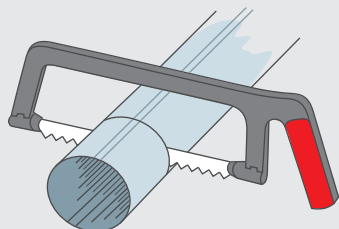


Motor and its control system should be kept out of children reach.

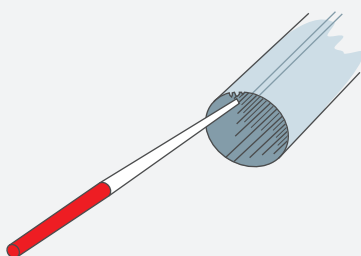
3. Placing motor in the tube



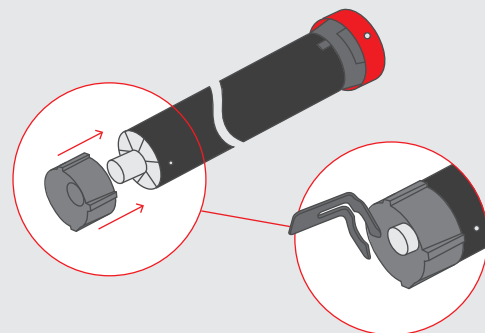
Motor should be mounted in places protected from unfavourable weather conditions.



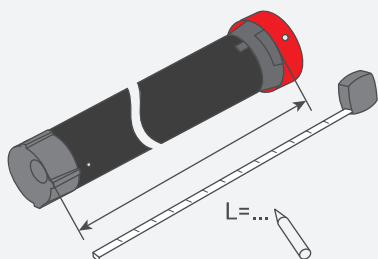
1. Cut the tube to the proper length.



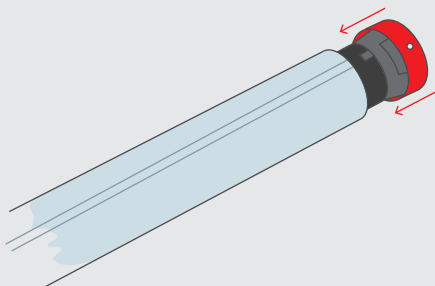
2. Deburr the edges and remove the metal residue.



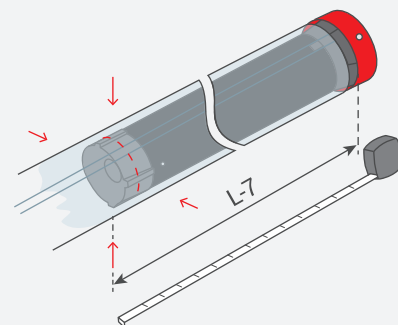
3. Place the adaptation on the motor.



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

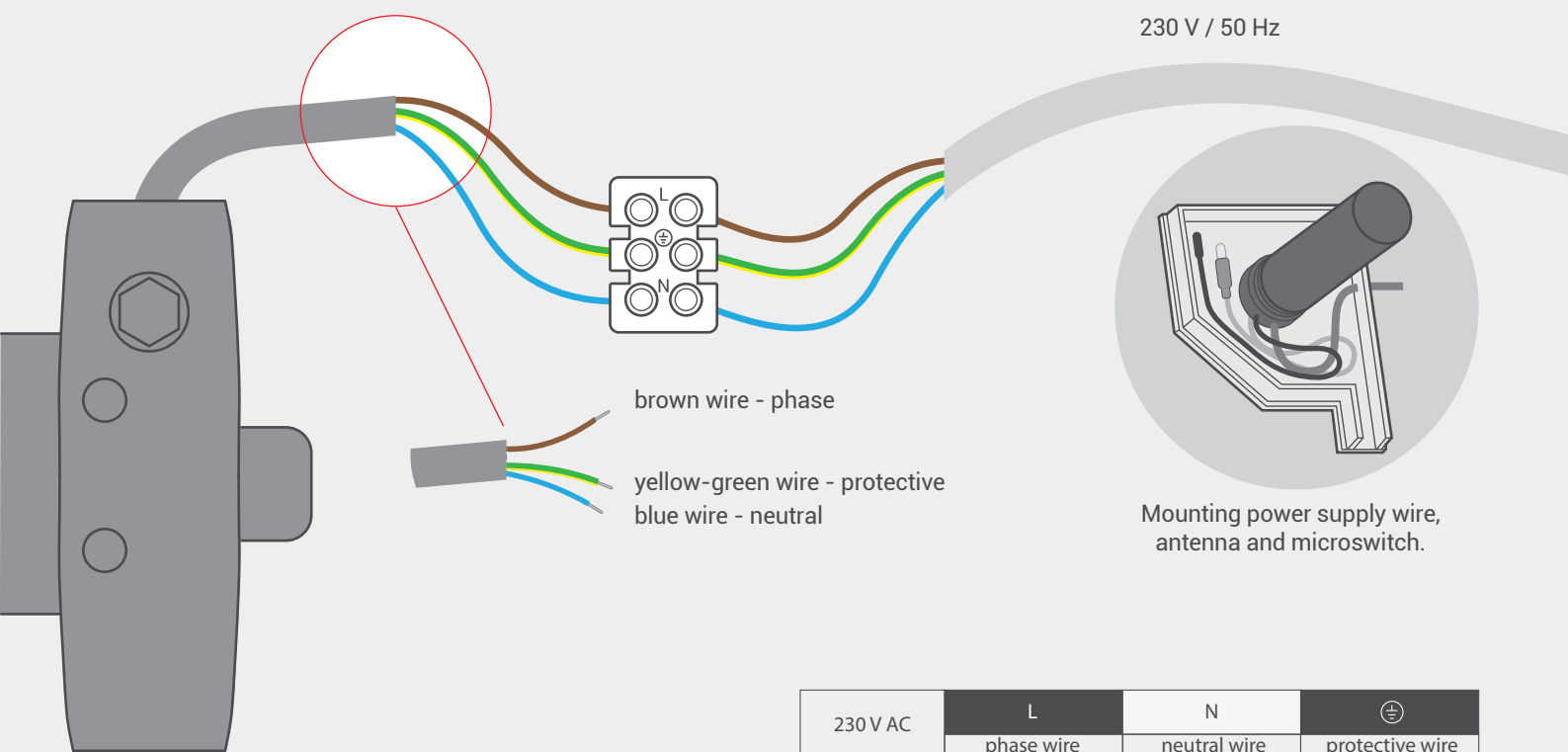


5. Insert the motor into the tube up to the point of connection between the edge of the tube and the inner edge of the motors head.



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

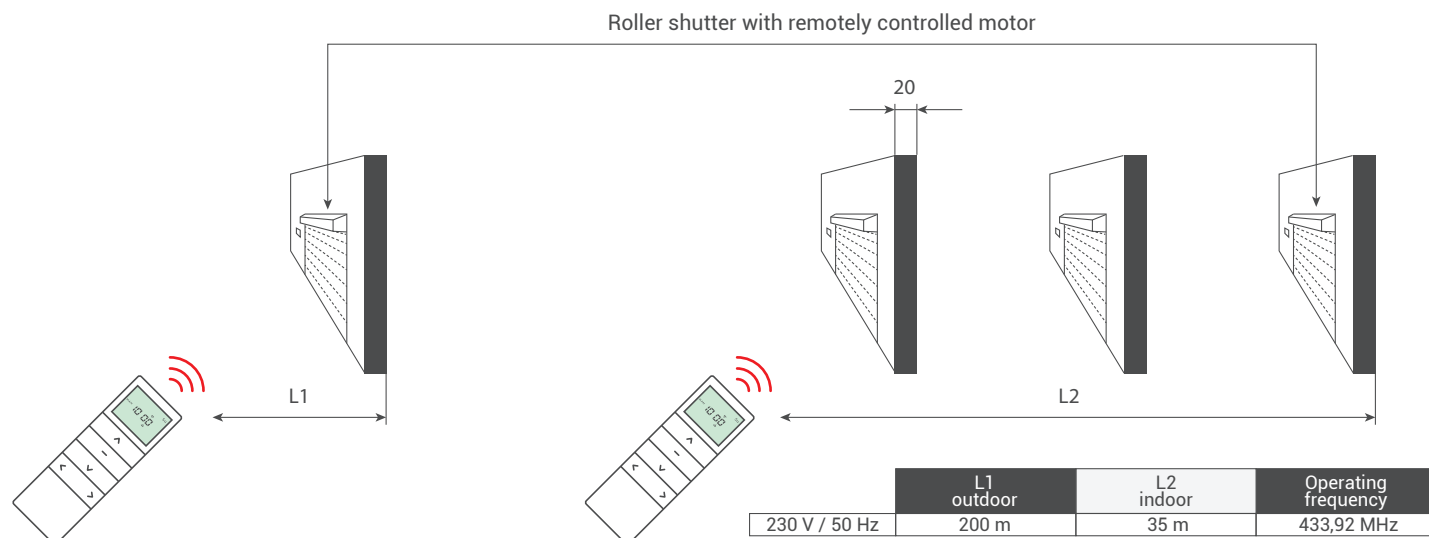


Installation of the tubular motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence (SEP - Association of Polish Electrical Engineers) or equal license. Device is designed to operate in places shielded from unfavourable weather conditions. Motor should be installed 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 losing 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



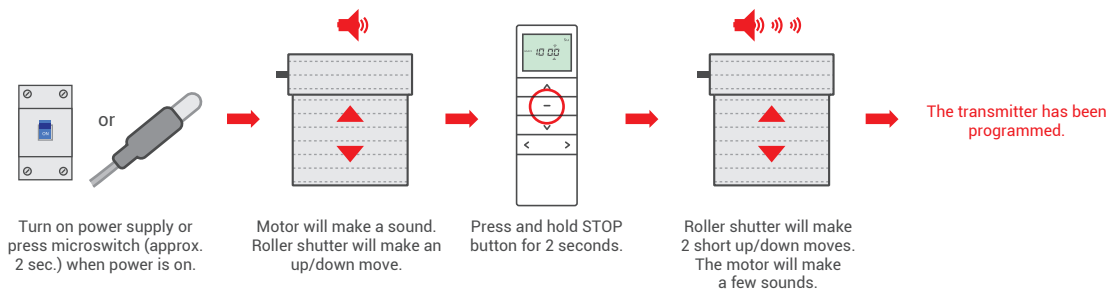
Radio receiver range is a variable value and can differ from declared values depending on conditions in which device operates. Possible sources of changes in range are building construction, interference caused by other radio transmitters etc.



6. Programming first transmitter



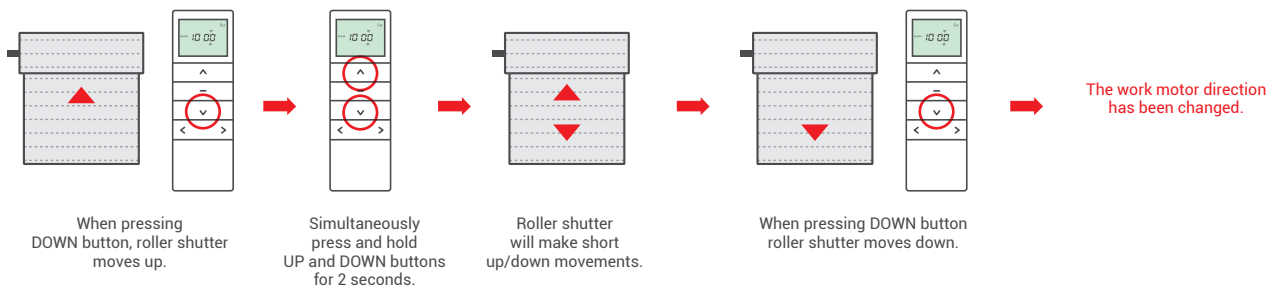
1. Longer than 6 seconds pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.
2. If the end positions are not set, the programming of the first transmitter results in the deleting of pre-programmed transmitters from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



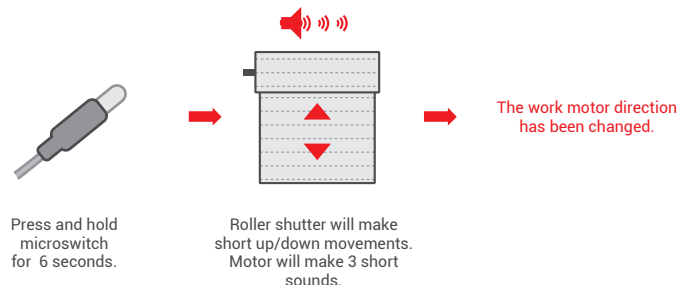
7. Changing motors direction

METHOD 1:

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



METHOD 2:



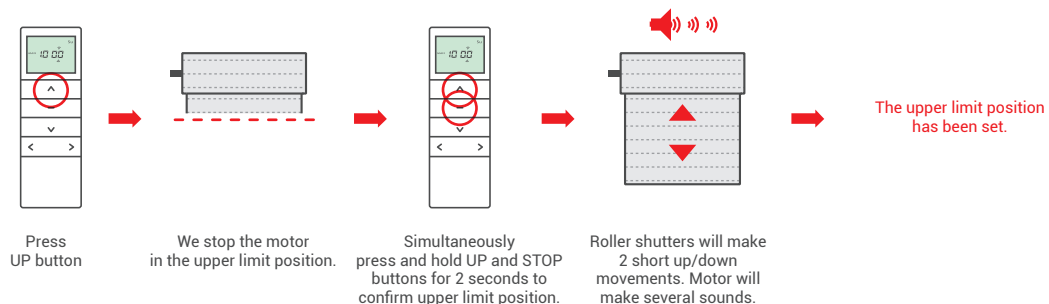
8. Programming limit positions



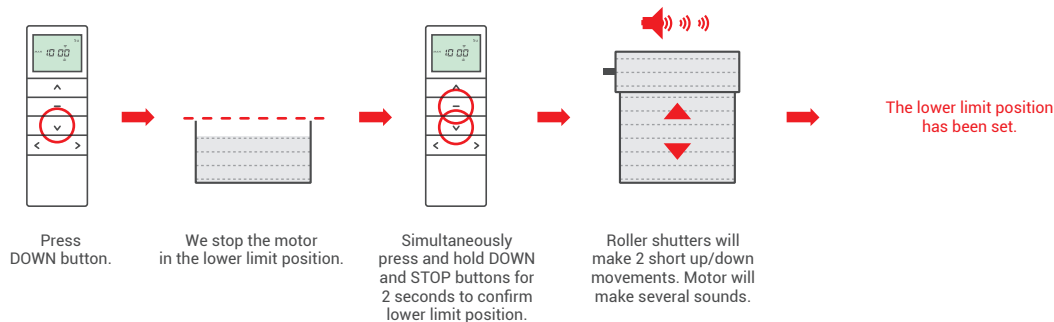
1. If the end positions are not set, the motor is in pulse mode.
2. Holding down the UP or DOWN button for more than 2 seconds will cause continuous work of the motor.
3. Longer than 2 minutes pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.

METHOD 1: PROGRAMMING OF LIMIT POSITIONS USING A REMOTE CONTROL

A. UPPER LIMIT POSITION:



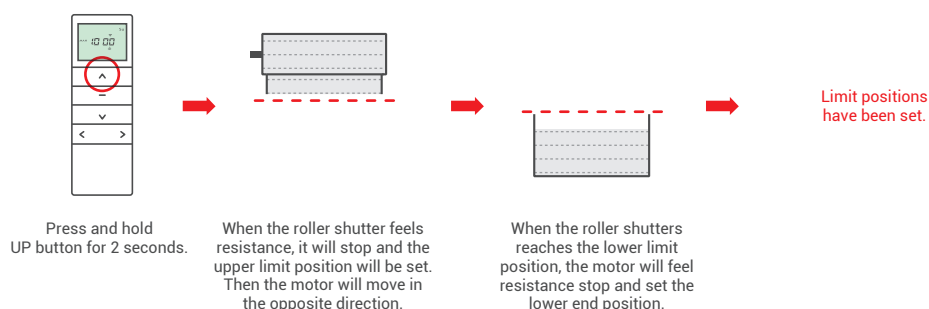
B. LOWER LIMIT POSITION:



METHOD 2: AUTOMATIC PROGRAMMING OF LIMIT POSITIONS



Automatic programming of limit positions should start from the upper limit position

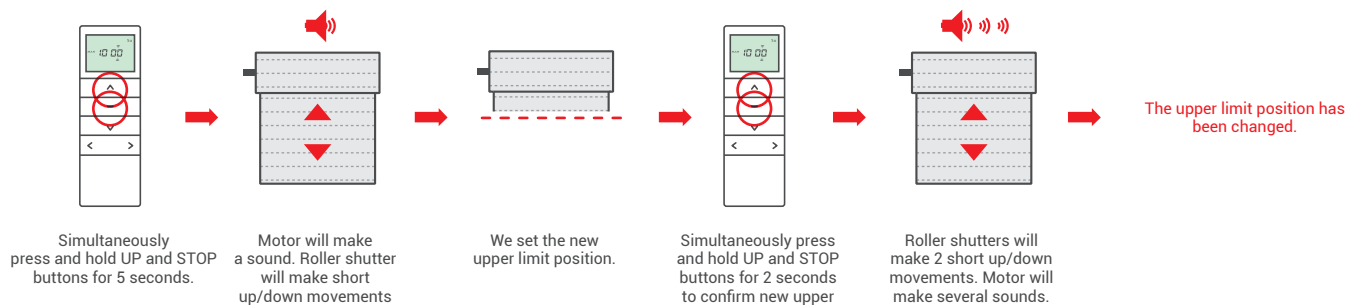


9. Regulation limit positions

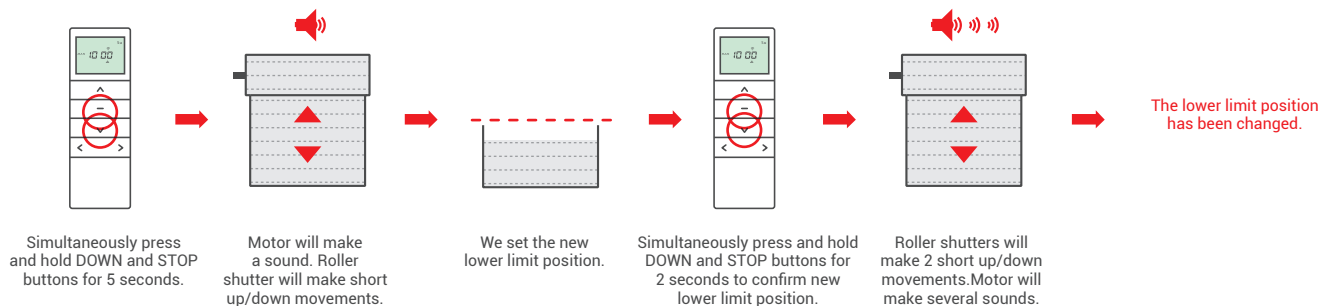


1. In case of setting the limit positions, the upper or lower limit position can be corrected.
2. Longer than 2 minutes pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.

REGULATION OF THE UPPER LIMIT POSITION:



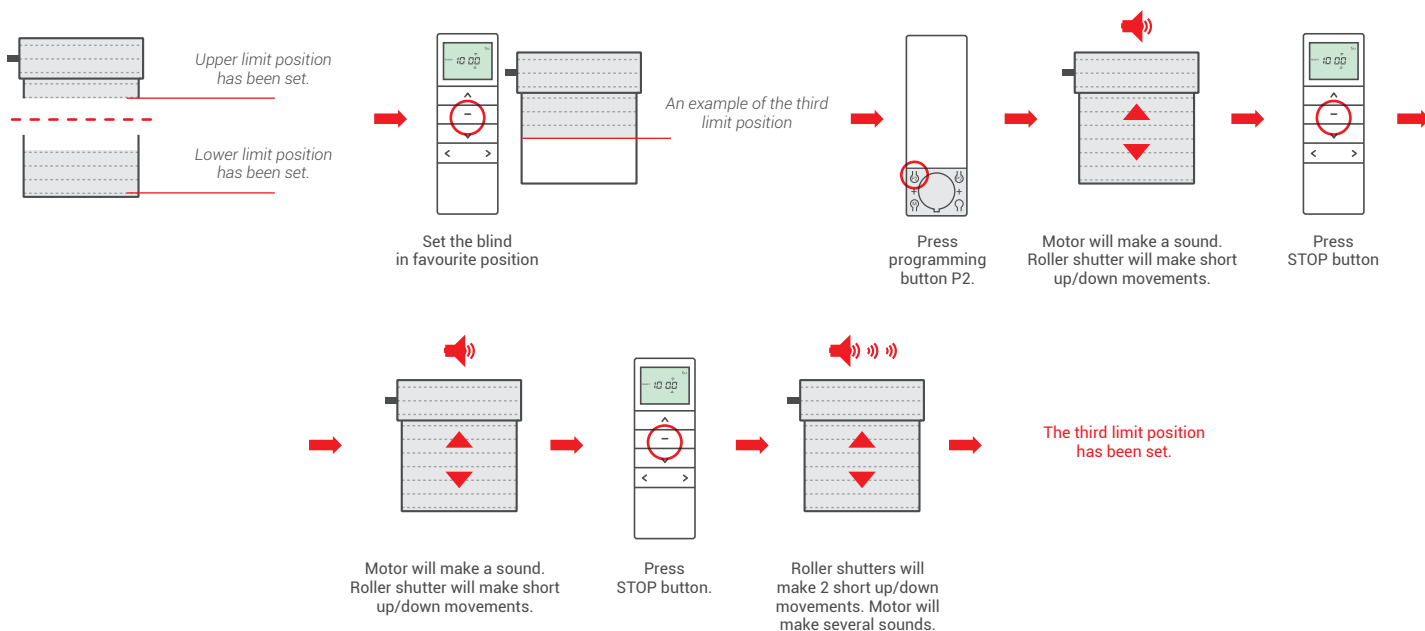
REGULATION OF THE LOWER LIMIT POSITION:



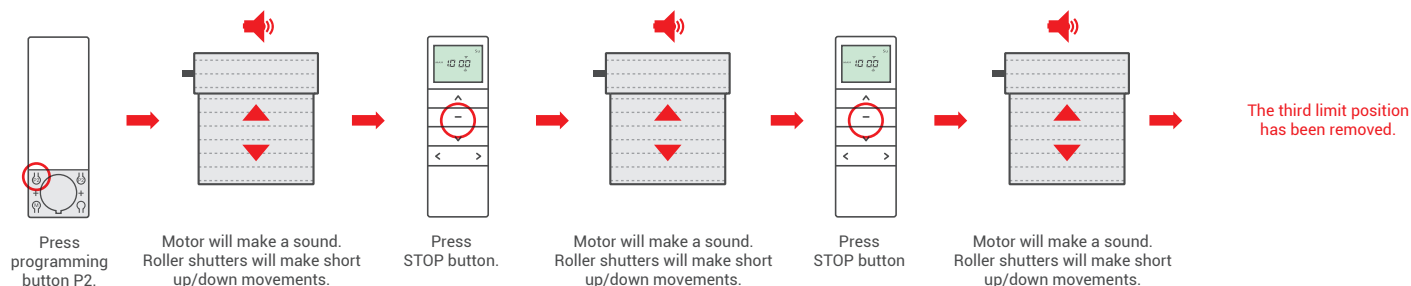
10. Programming the third limit position



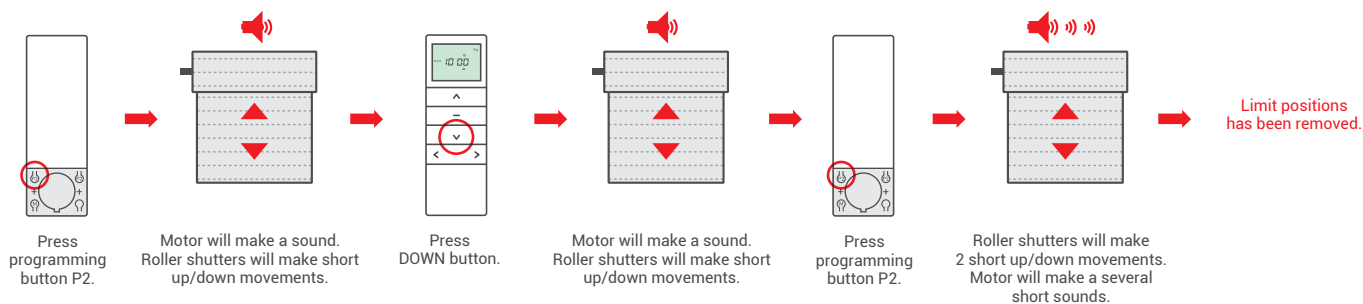
1. After setting the upper and lower limit positions, it is possible to set the third position (favorite) between those positions.
2. Hold the STOP button for 3 seconds to set the blind in third limit position.



11. Removing third limit position



12. Removing limit positions

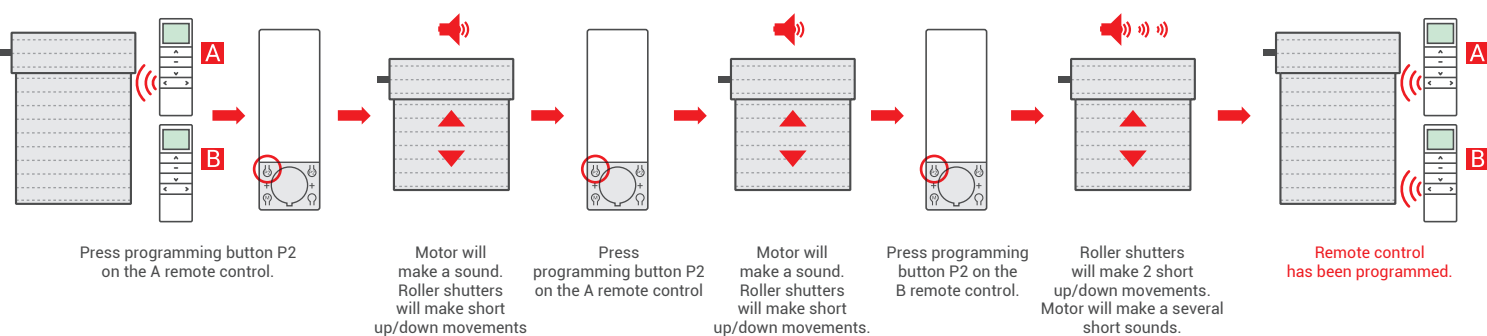


13. Programming another transmitter

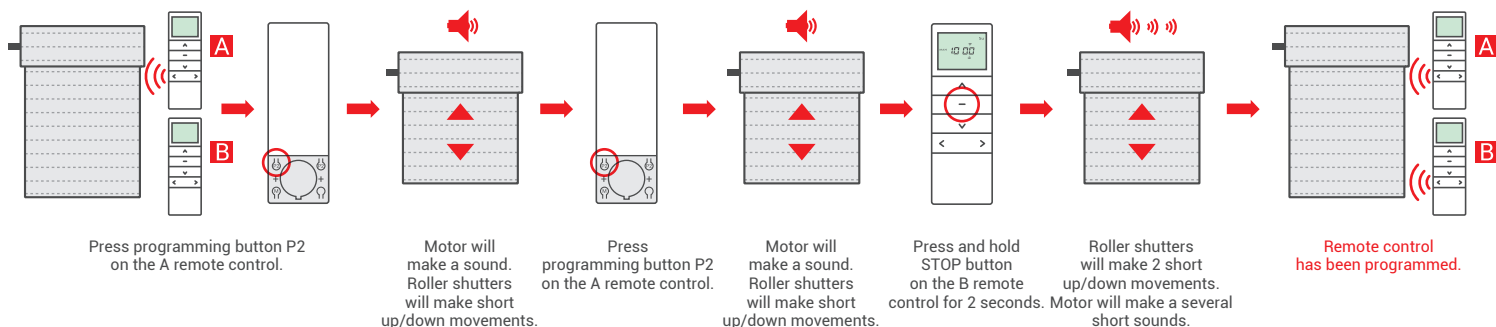


1. Receiver can be controlled by up to 10 transmitters.
2. Longer than 6 seconds pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.

METHOD 1:

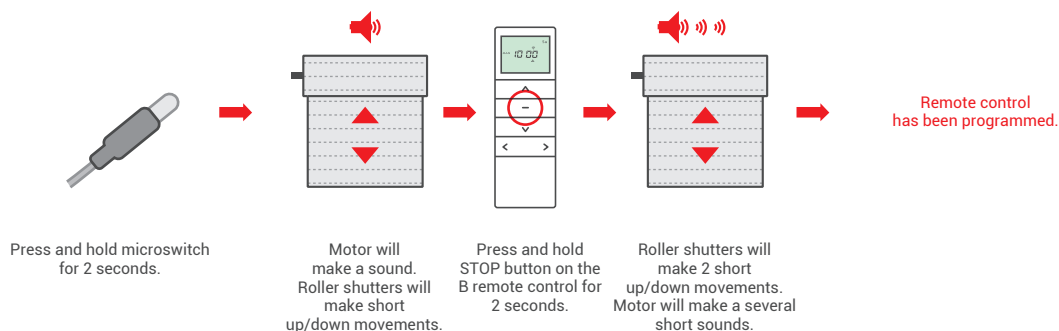


METHOD 2:

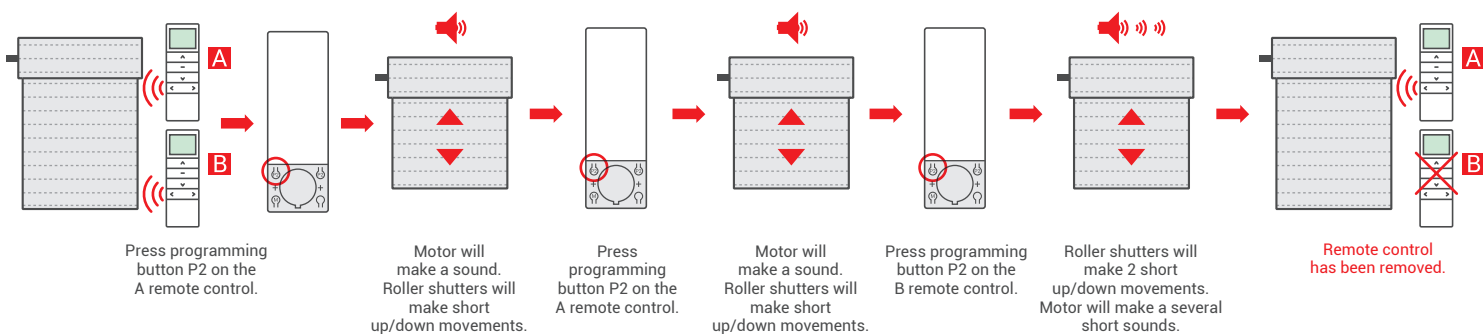


METHOD 3:

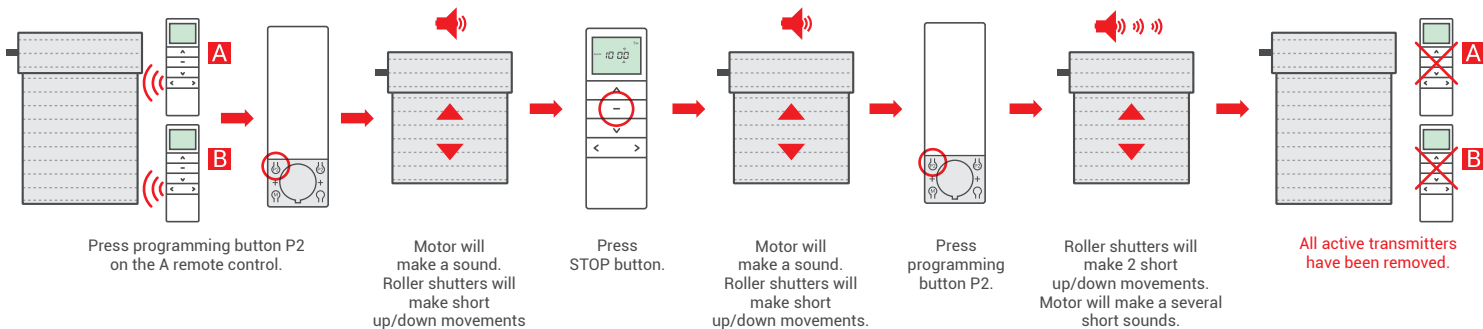
Adding a transmitter by this method is possible after programming the limit positions.



14. Deleting another transmitter



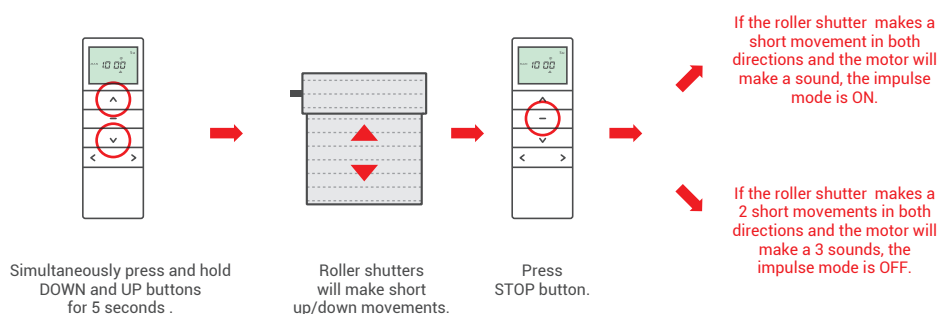
15. Deleting all transmitters



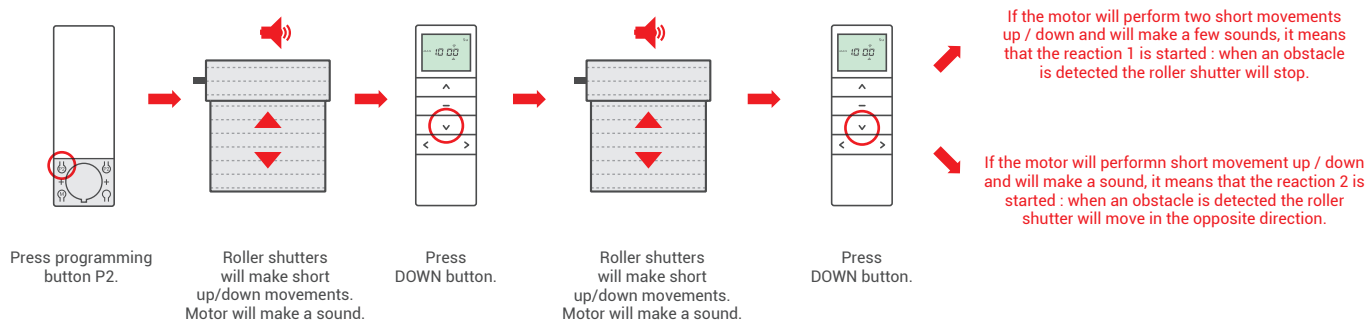
16. Activating impulse mode



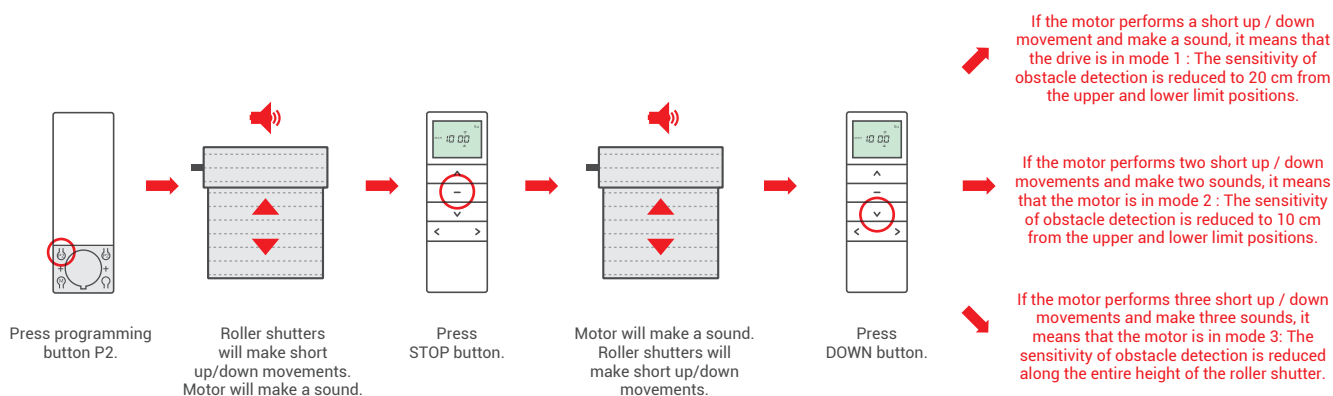
1. Longer than 6 seconds pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.
2. To activate impulse mode follow the procedure below. To deactivate impulse mode repeat this procedure.
3. The pulse function is carried out in such a way that a short pressing of the UP or DOWN button causes the motor to work in impulse mode and holding the button above 2 seconds will cause the motor to work continuously.



17. Choosing a reaction to obstacle detected



18. Choosing obstacle detected operation mode



19. Manual opening function



1. When the manual opening function is activated, manually opening or closing the roller shutter in case of power failure does not change the limit positions of the motor.
2. When the manual opening function is deactivated, do not use head of the emergency opening as this will change the programmed limit positions of the motor.
3. Do not use the emergency opening outside the range of the set limit positions.
4. By default, the manual opening function is enabled.
5. Use the emergency opening only when there is no power supply. An hexagonal pivot with a dimension of 7 mm is used for the emergency opening mechanism. To open or close the gate using the head of emergency opening, place the crank in the emergency opening. Rotate the crank to open or close the gate.

