











Significant hazards can occur if the handling and safety instructions laid out in this manual are not complied with. It is strongly recommended that you follow the operating instructions.

Installation of the tubular motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence or equal licence.

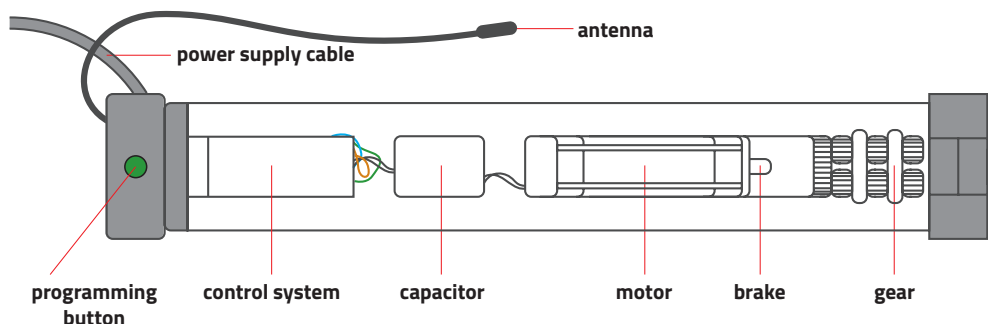
ONE MB4 tubular motors are motors with bi-directional communication.

The tubular motors are compatible with all **ONE SMART HOME** brand devices.

| ONE ZB2 | ONE YB1 | ONE FB1 | ONE FB2 | ONE XB1 | ONE XB2 | ONE XB3 | ONE XB4 | ONE XB5 | ONE SMART HOME |
|--|---|---|---|---|---|--|---|---|---|
| Switch / radio receiver | Radio receiver | 1-channel on-wall transmitter | 5-channel on-wall transmitter with timer | 1-channel remote control | 5-channel remote control | 15-channel remote control | 30-channel remote control | Remote control (key fob) | Central control unit |
|  |  |  |  |  |  |  |  |  |  |
| Designed for wired motors | | | | Compatible with ONE-MB4 motor | | | | | |

Technical data

ONE-MB4 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 end position switches set by using the remote control provide ease of programming. Motors provide the ability to set the third position. For **ONE-MB4** 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 **ONE 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

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 deleting previously programmed transmitters.



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

Safety measures

Before installing or using the motor please read the following user manual. 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 may cause improper functioning of the roller shutter. This also results in the loss of warranty rights.

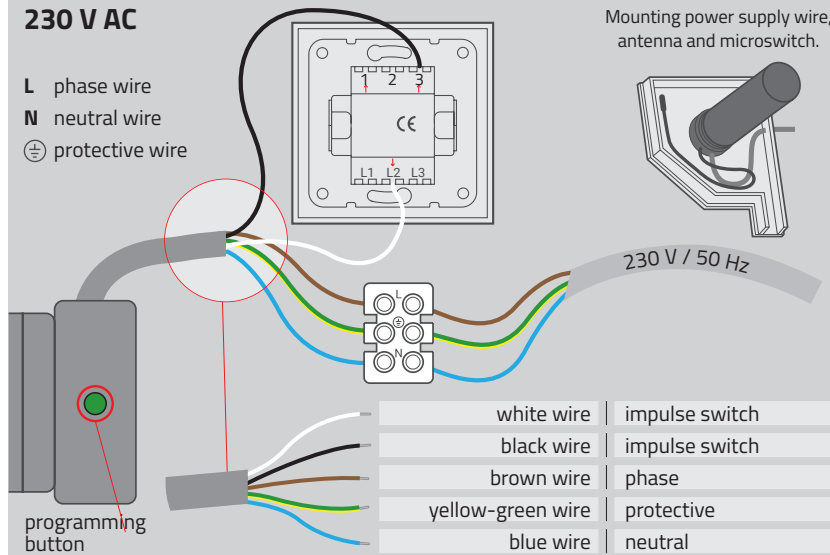
- Motors torque parameter should be adequate to the weight of the roller shutter curtain.
- Wiring should be mounted in a way preventing water from entering the tubular motor, it should also prevent the moving roller shutter curtain from damaging the wiring.
- Electrical system control should be performed 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 a minimum.
- No tools should be used when placing the motor in the tube.
- When mounting the adapter special attention must be paid not to damage the motor.
- Motor and its control system should be kept out of reach of children.

Connecting ONE MB4 motor

230 V AC

- L** phase wire
- N** neutral wire
- ⊕ protective wire

Mounting power supply wire, antenna and microswitch.

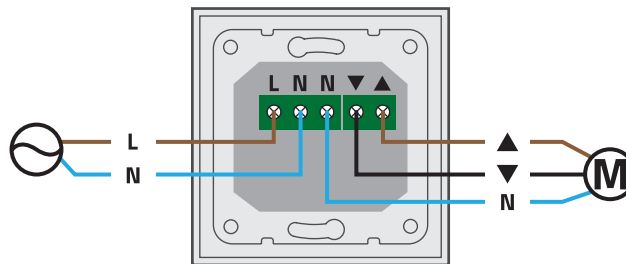


Installation of the tubular motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence or equal licence. Device is designed to operate in places shielded from unfavourable weather conditions. Motor should be installed in accordance with all provisions of EU law and 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 (eg. WTS, S- B class) slow-blow fuse (class C or D) should never be used. Creating electrical system using inadequate fuse may result in losing rights under the provisions of warranty. When connecting device to power source with cables appropriate cross-section should be used. Long-lasting output load capacity table should be the ground for choosing correct cables.

Connecting ONE ZB2 switch / radio receiver

230 V AC

| | |
|---|------------------------------------|
| N | neutral wire – blue (power supply) |
| L | phase wire – brown (power supply) |



| | |
|---|----------------------------------|
| ▼ | Direction 1 – black wire (motor) |
| ▲ | Direction 2 – brown wire (motor) |
| N | neutral wire – blue (motor) |

Programming and adding ONE ZB2 switch / radio receiver to the remote control



Press and hold STOP button for 2 s. Motor makes a sound, the roller shutter makes short up/down movements.



Press and hold STOP button for 2 s. Motor makes a sound, the roller shutter makes short up/down movements.

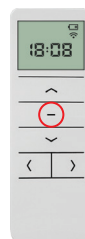


The remote control has been programmed

Deleting the remote control from ONE ZB2 switch / radio receiver



Press and hold STOP button for 2 s. Motor makes a sound, the roller shutter makes short up/down movements.



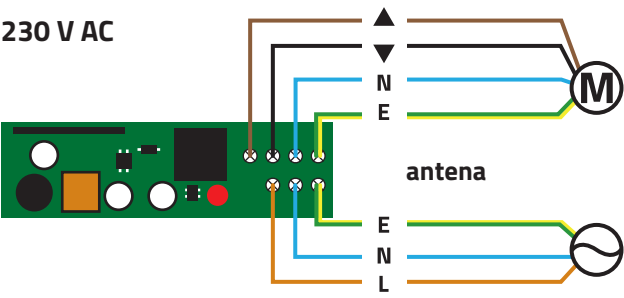
Press and hold STOP button for 2 s. Motor makes a sound, the roller shutter makes short up/down movements.



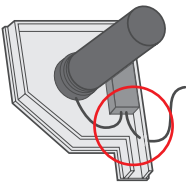
The remote control has been deleted

Connecting ONE YB1 radio receiver

230 V AC



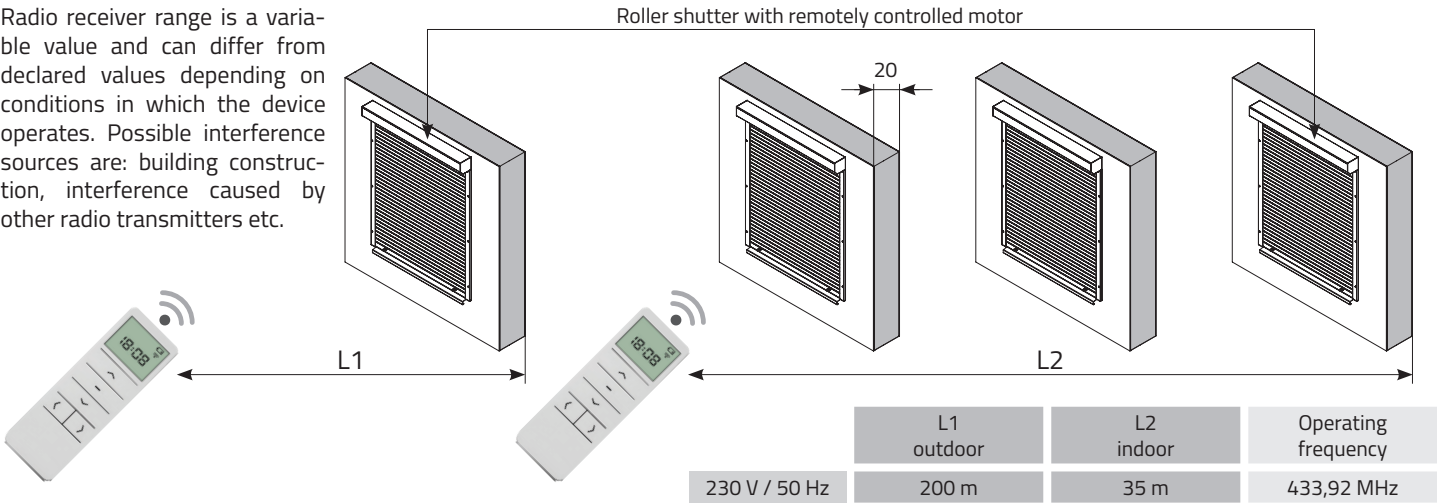
- | | |
|---|---|
| ▼ | Direction 1 – black wire (motor) |
| ▲ | Direction 2 – brown wire (motor) |
| N | Neutral wire – blue (motor) |
| E | Protective wire – yellow-green (motor) |
| E | Protective wire – yellow-green (power supply) |
| N | Neutral wire – blue (power supply) |
| L | Phase wire – brown (power supply) |



The receiver should be mounted as shown in the drawing (with the wires facing down).

Range

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



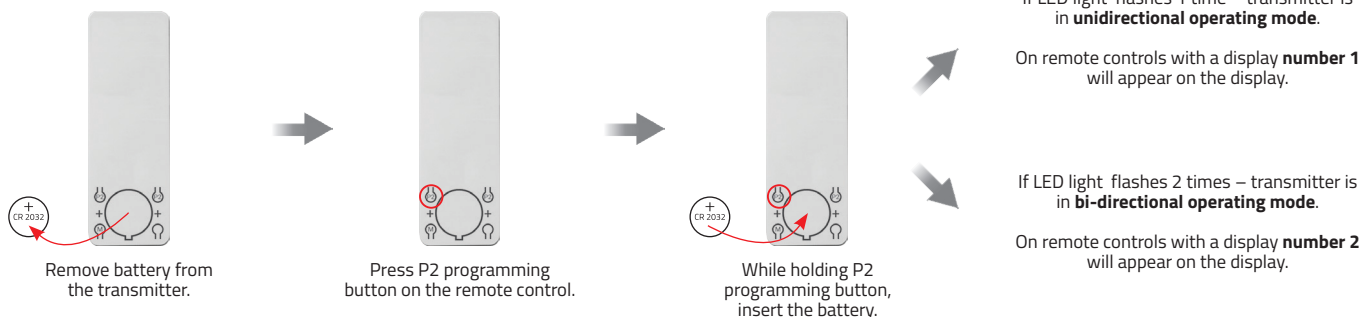
| Programming and operating buttons | | | Location of P2 programming button | | | | |
|-----------------------------------|--|---------|-----------------------------------|---------|--|---------|---------|
| ONE FB1 ONE FB2 ONE ZB2 | ONE XB1 ONE XB2 ONE XB3 ONE XB4 | ONE XB5 | ONE FB1 | ONE FB2 | ONE XB1 ONE XB2 ONE XB3 ONE XB4 | ONE ZB2 | ONE XB5 |
| | | | | | | | |

Selection of transmitter operating mode

If connecting remote control with the motor is impossible, check transmitter's operating mode.



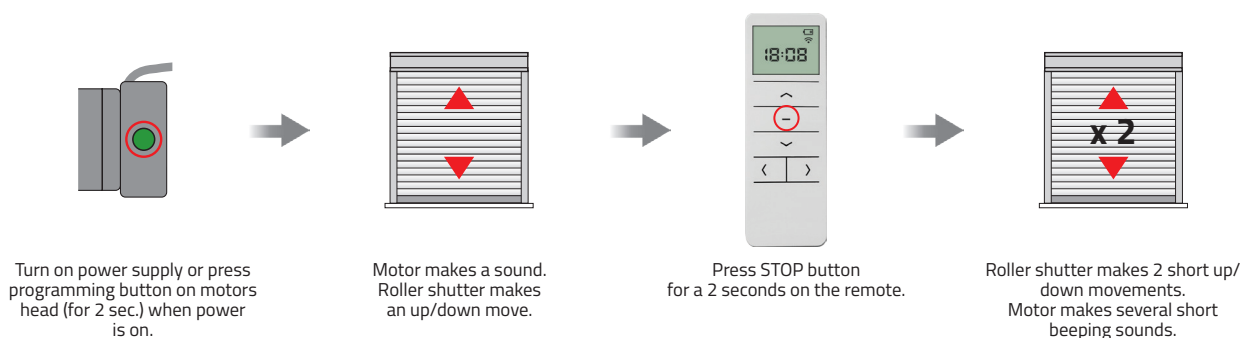
- Transmitter's operating modes:
 - bi-directional
 - unidirectional
- Transmitter's operating mode default setting is bi-directional.



Programming the first transmitter



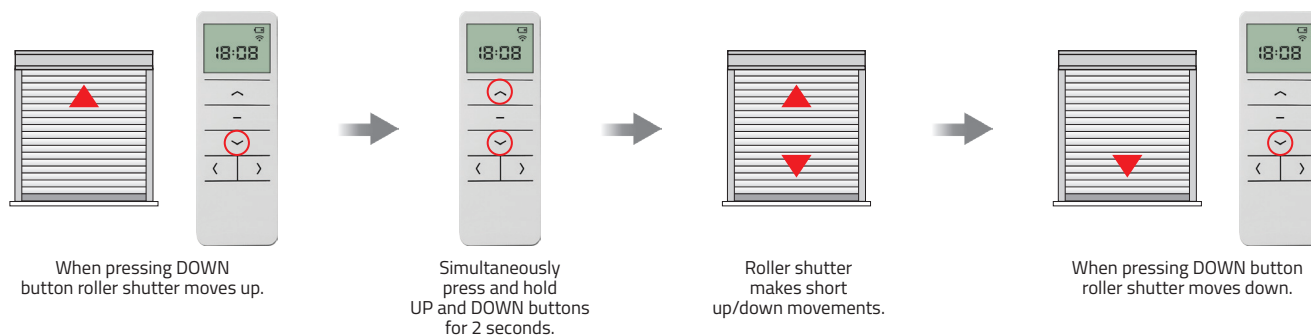
- Longer than 6 seconds pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.
- If the end positions are not set, the programming of the first transmitter results in the deleting of pre-programmed transmitters from memory.



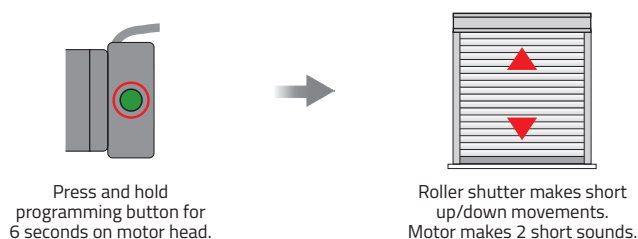
Changing motor direction

METHOD 1:

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



METHOD 2:



Programming end positions

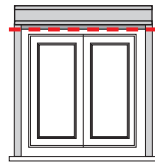


1. If the end positions are not set, the motor is in pulse mode.
2. **Longer than 2 minute pause** between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.

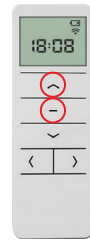
UPPER END POSITION:



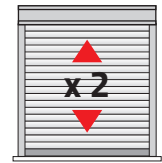
Press UP button.



Stop the motor in the upper end position.

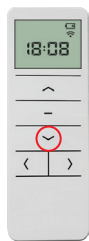


Simultaneously press and hold UP and STOP buttons for 2 seconds to confirm upper end position.

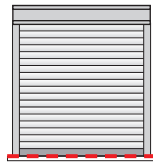


Roller shutter makes 2 short up/down movements. Motor will make several beeping sounds.

LOWER END POSITION:



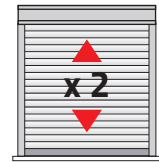
Press DOWN button.



Stop the motor in the lower end position.



Simultaneously press and hold DOWN and STOP buttons for 2 seconds to confirm upper end position.



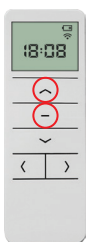
Roller shutter makes 2 short up/down movements. Motor will make several beeping sounds.

Adjusting end positions

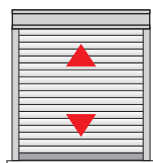


1. When setting the end positions, you can adjust the upper or lower end position.
2. **Longer than 2 minute pause** between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.

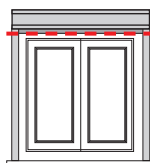
ADJUSTING THE UPPER END POSITION



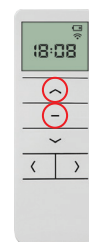
Simultaneously press and hold UP and STOP buttons for 5 seconds.



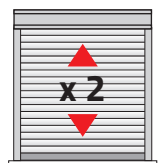
Motor makes a beeping sound. Roller shutter makes short up/down movements.



Set the new upper end position.

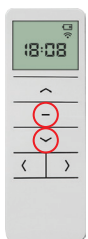


Simultaneously press and hold UP and STOP buttons for 2 seconds to confirm the new upper end position.

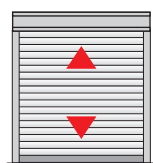


Roller shutter makes 2 short up/down movements. Motor will make several sounds.

ADJUSTING THE LOWER END POSITION



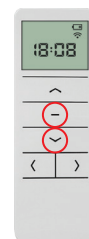
Simultaneously press and hold DOWN and STOP buttons for 5 seconds.



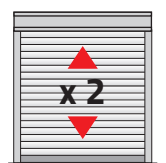
Motor makes a beeping sound. Roller shutter makes short up/down movements.



Set the new lower end position.



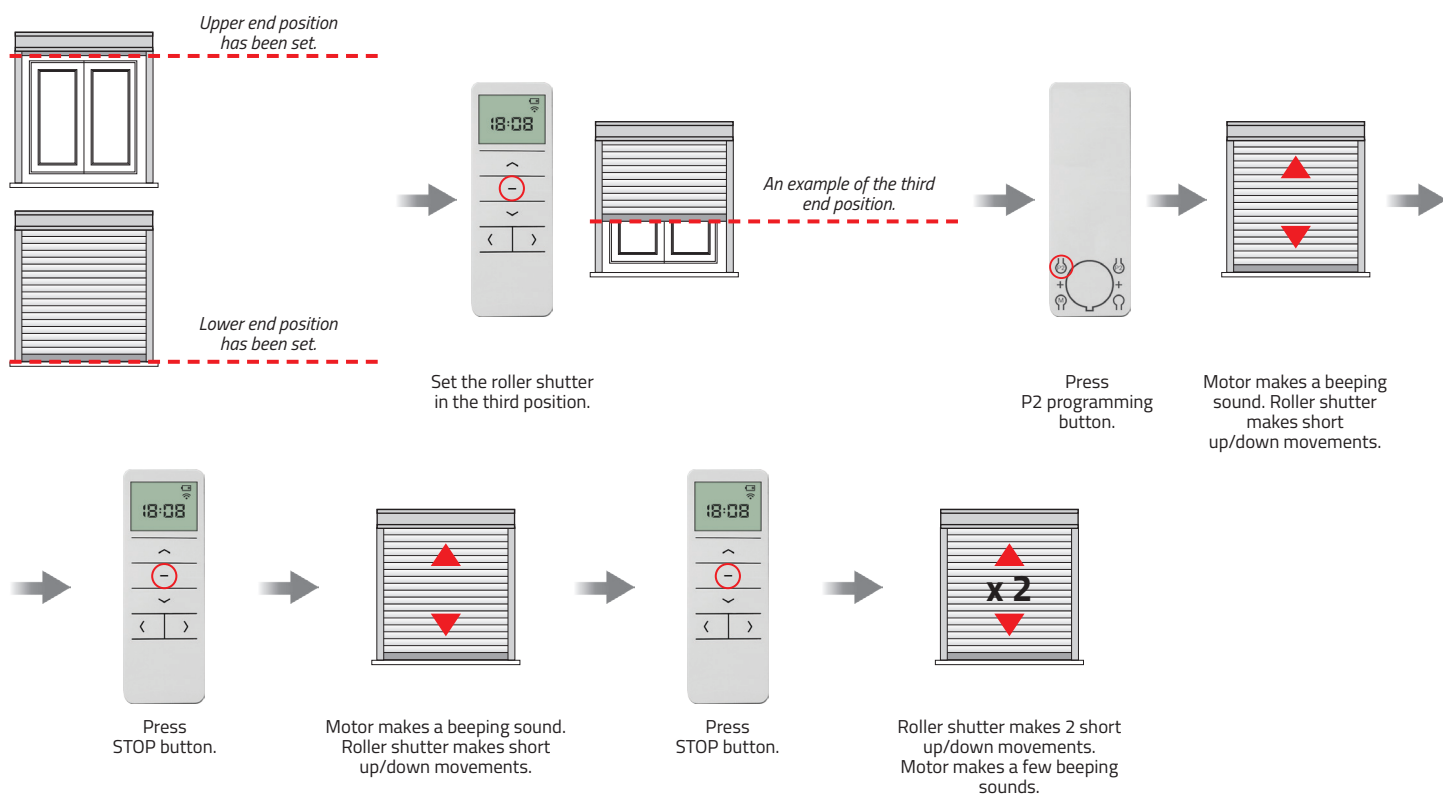
Simultaneously press and hold DOWN and STOP buttons for 2 seconds to confirm the new lower end position.



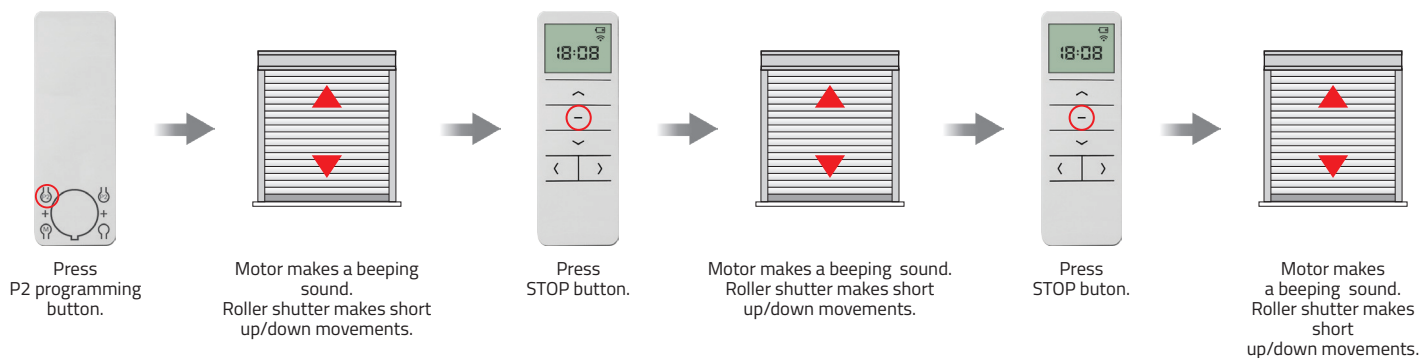
Roller shutter makes 2 short up/down movements. Motor will make several sounds.

Programming the third end position

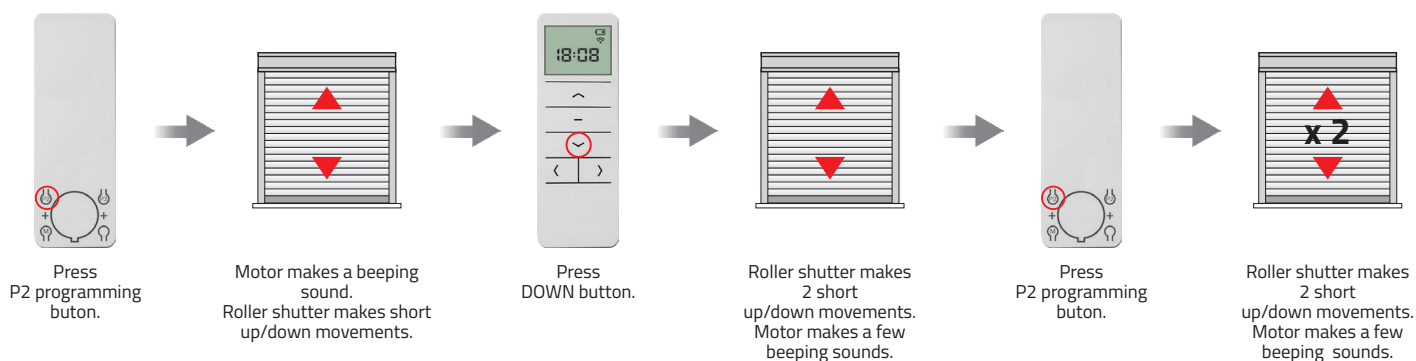
1. After setting the upper and lower end positions, it is possible to set the third position (favorite) between those positions.
2. Hold the STOP button for 3 seconds to set the blind in third end position.



Deleting the third end position



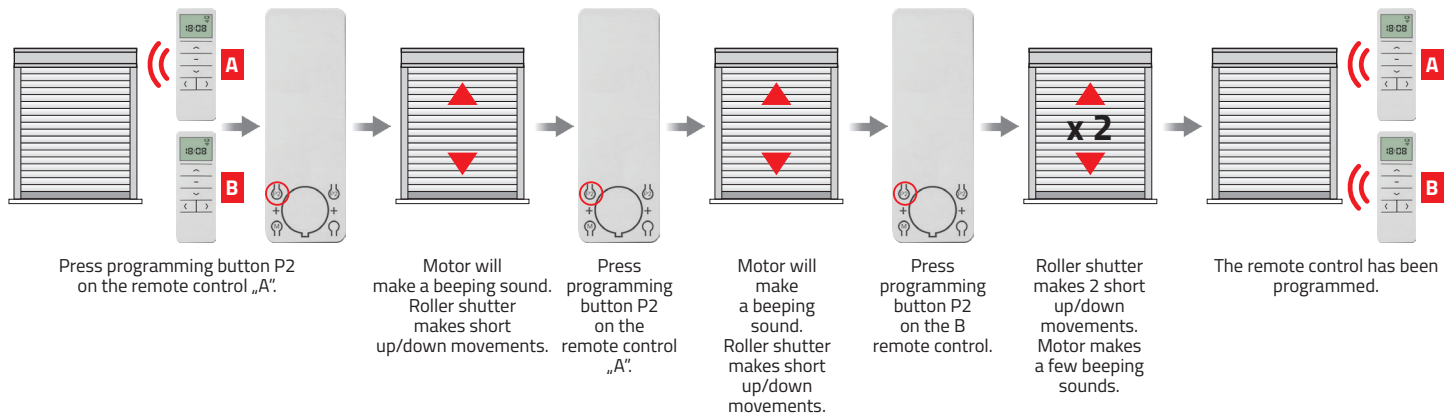
Deleting end positions



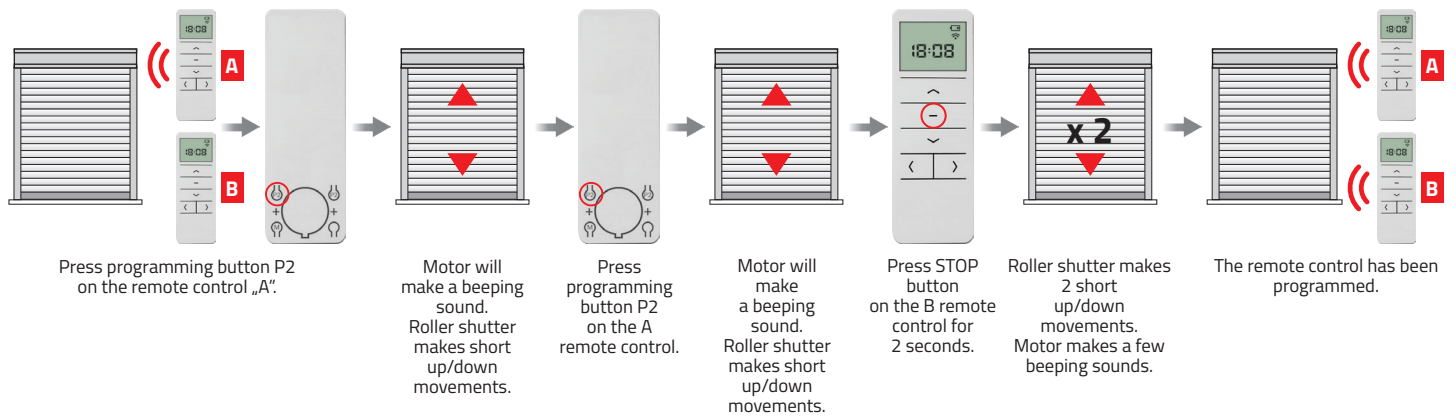
Programming another transmitter

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:

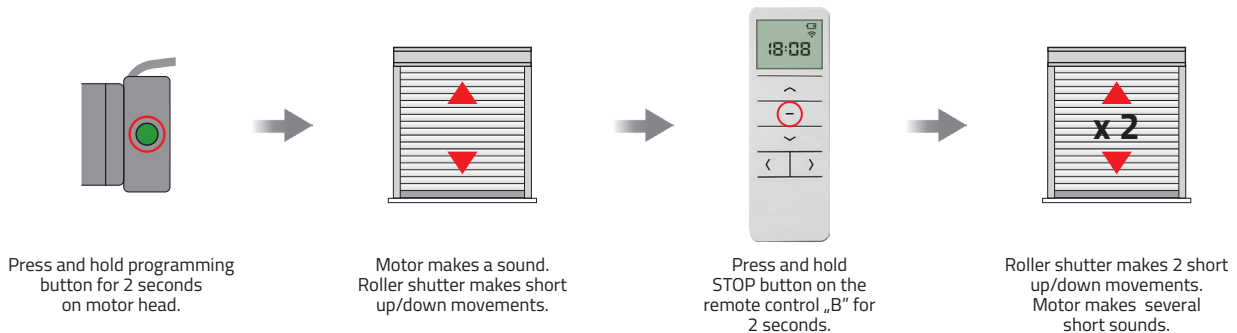


METHOD 2:



METHOD 3:

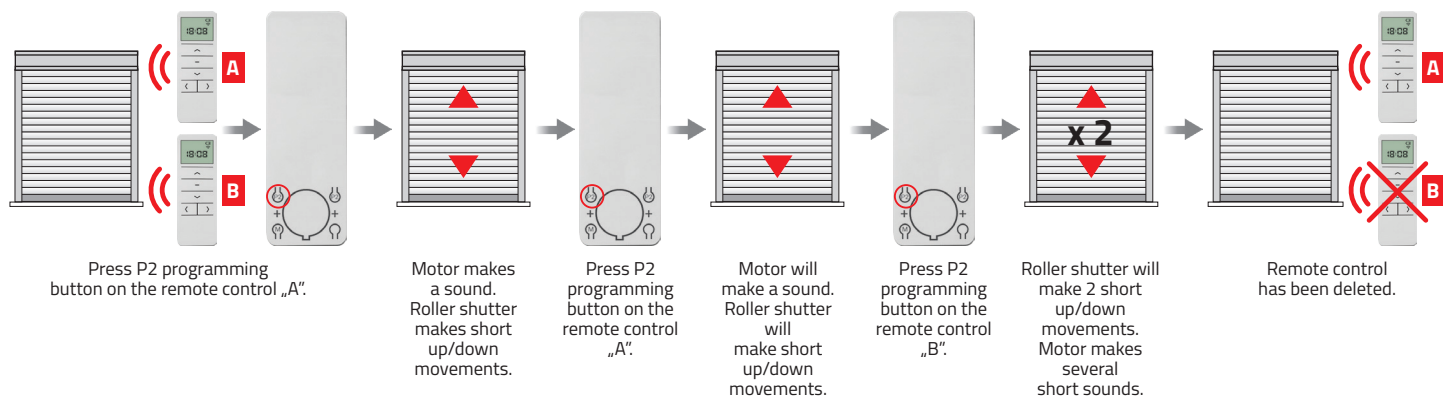
Adding a transmitter using this method is possible after programming the end positions.



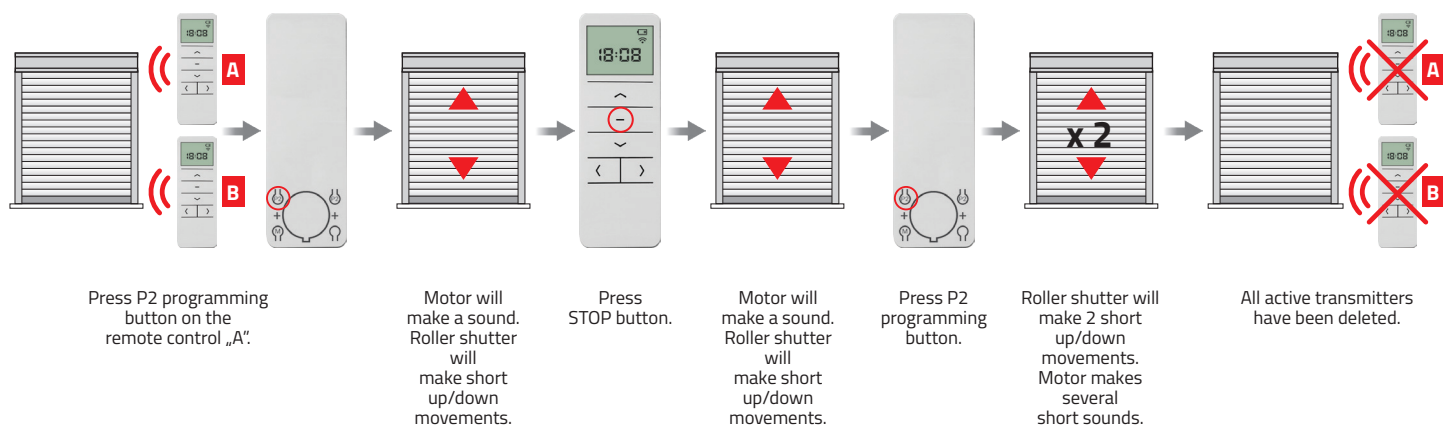
Copying data from the transmitter to the remote control ONE XB5



Deleting another transmitter



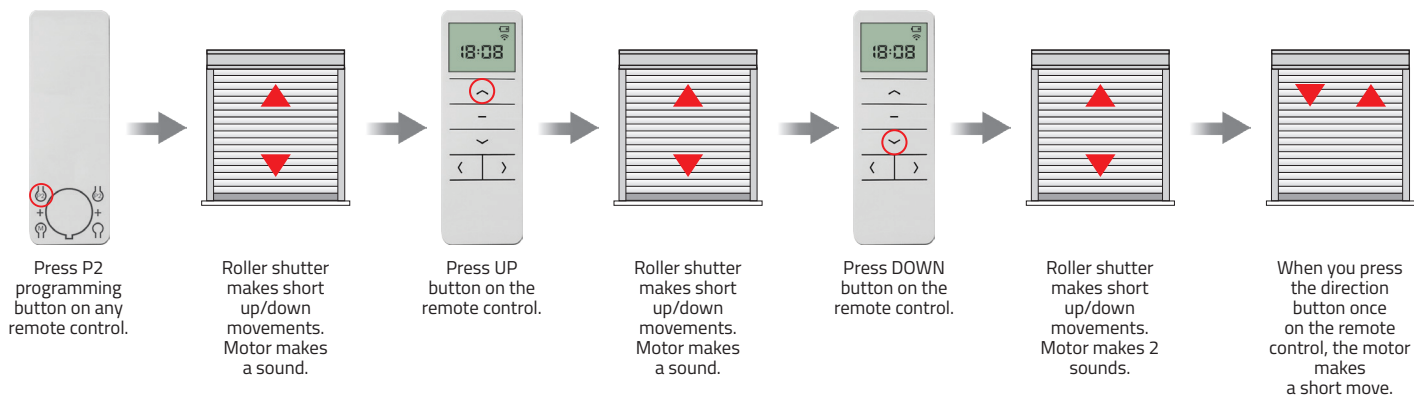
Deleting all transmitters



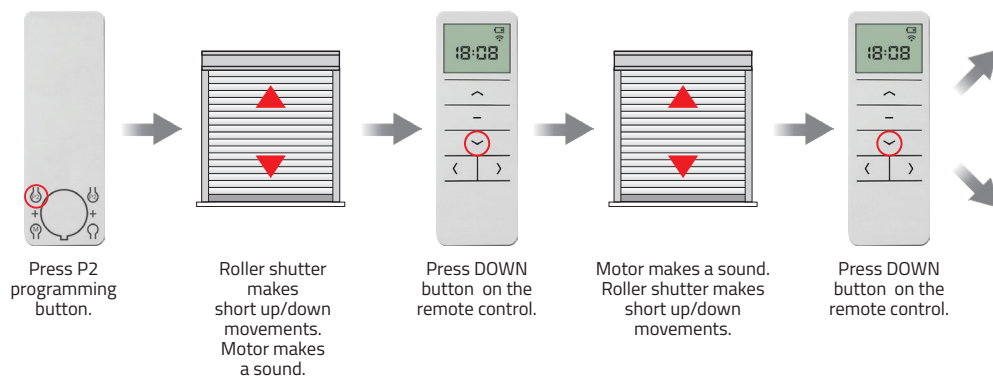
Activating impulse mode

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 the procedure.



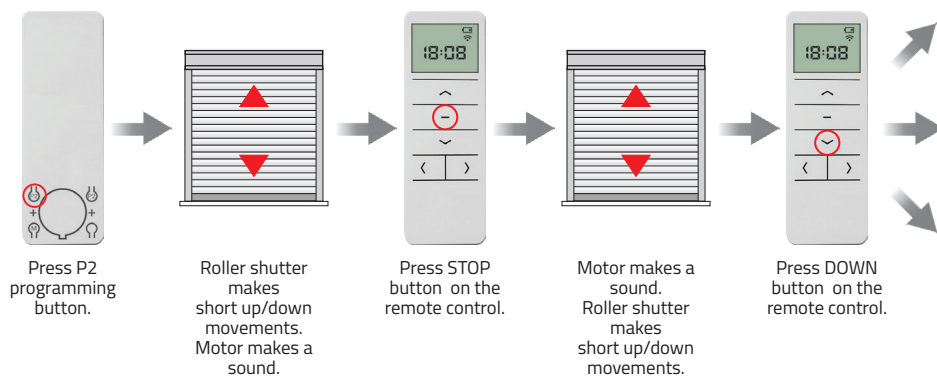
Selecting a reaction to obstacle detected



If the motor makes two short up/down movements and makes a few sounds, it means that the **reaction 1 has been triggered: when an obstacle is detected the roller shutter stops.**

If the motor makes a short up/down movement and makes a sound, it means that the **reaction 2 has been triggered: when an obstacle is detected the roller shutter makes a short movement in the opposite direction.**

Selection of obstacle detection operation mode

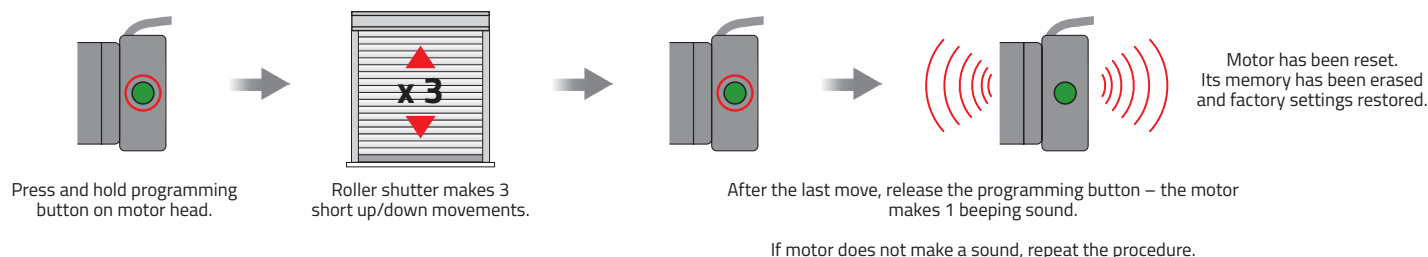


If the motor makes a short up / down movement and makes a sound, it means that it is in **mode 1**: The sensitivity of obstacle detection is reduced to 20 cm from the upper and lower limit positions.

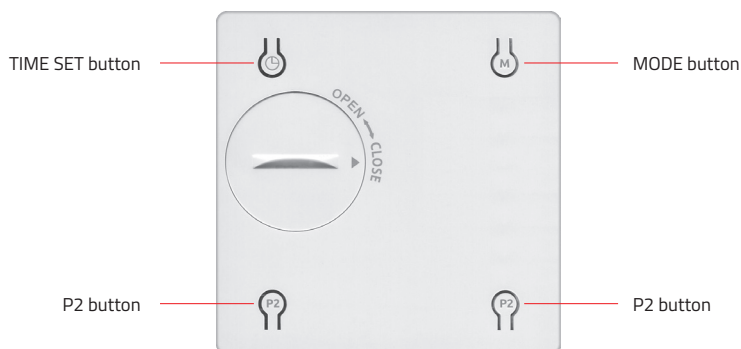
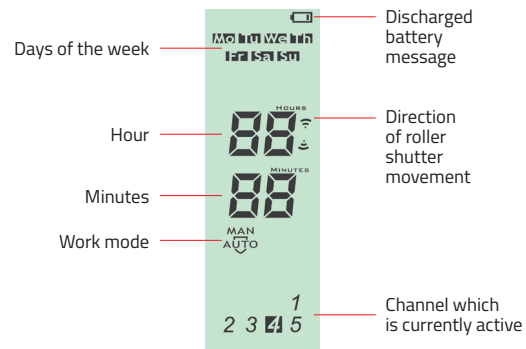
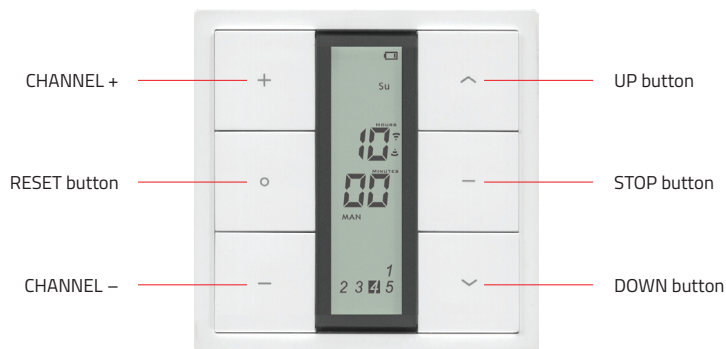
If the motor makes two short up / down movements and makes two sounds, it means that it is in **mode 2**: The sensitivity of obstacle detection is reduced to 10 cm from the upper and lower limit positions.

If the motor makes three short up / down movements and makes 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.

Reset



ONE FB2 – 5-channel on-wall transmitter with timer



1. Group channel is active when all numbers are selected **1 2 3 4 5**.
2. Estimated battery lifespan is 1 year if the device runs 4 commands a day on average.
3. Batteries should be changed when no channel number is displayed after pressing any button or receiving device stops reacting to commands.



When replacing the battery, pay attention to the correct polarity.
Batteries contain substances that may be hazardous to health and may pollute the environment.
Used batteries should be disposed of properly.

ONE FB2 - change of operating mode

Manual (MAN) – manual control only.

Automatic (AUTO) – manual and timer-based control.

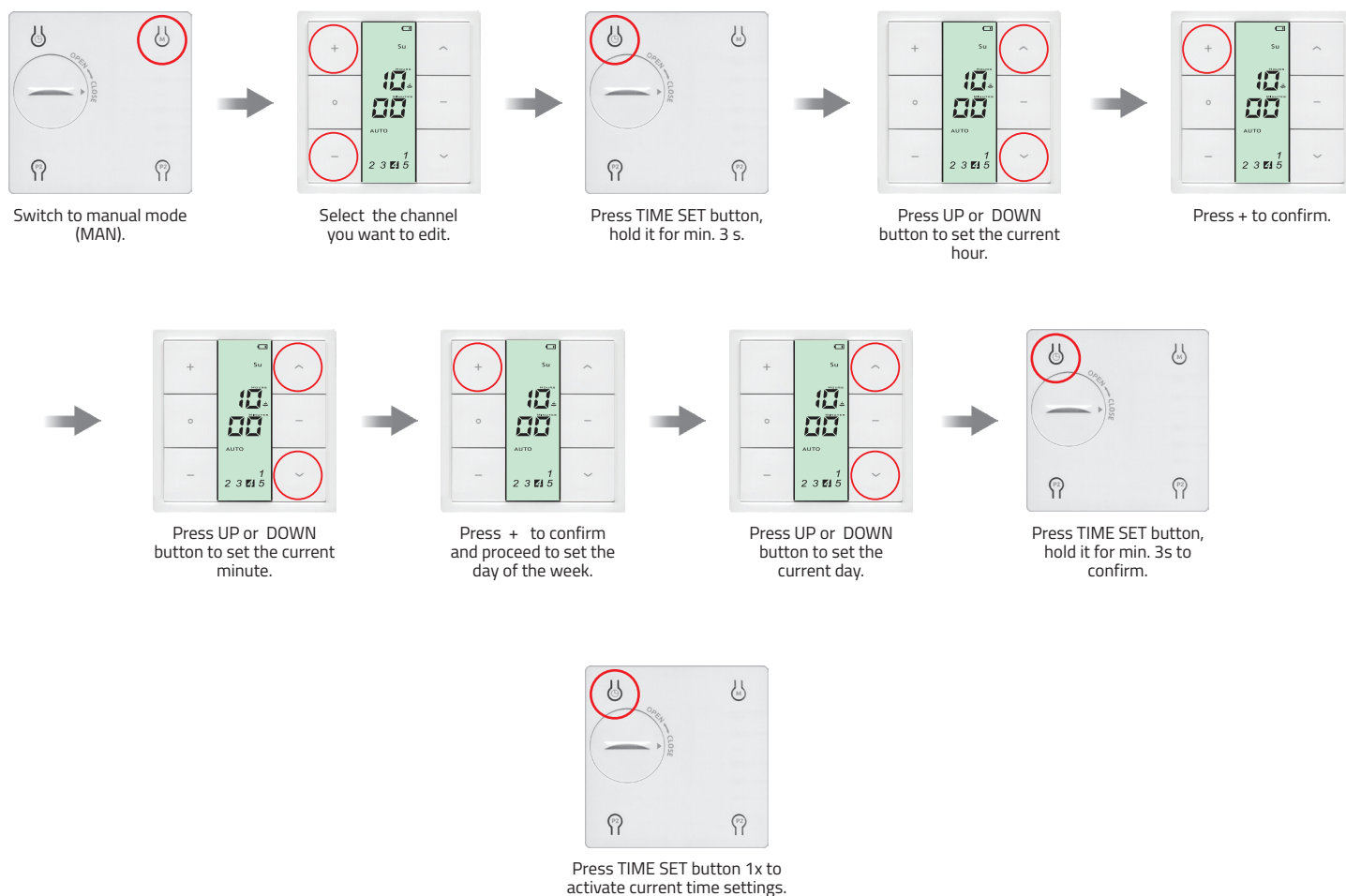
Shuffle mode (AUTO) – manual and random control. With timer-based control function only; +/- 15 min differences in time intervals (with regard to set time).

To change mode, **press M button**.



ONE FB2 – setting the current time and day of the week

Time can be set only when device is in manual working mode. Longer than 60 seconds pause between series of button clicks during programming will cause device to switch off from time setting mode.



Setting the time for opening and closing window coverings with ONE FB2

Each operation should be carried out in less than 60 seconds, otherwise the device will switch off from programming mode without saving any changes.

3 methods of synchronisation of timings:



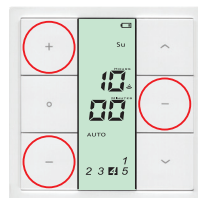
1. **'Mo-Su'** symbol flashes on the display – **the same timing is set from Monday till Sunday.**
2. **'Mo-Fr'** symbol flashes on the display – **the same timing is set from Monday till Friday, Saturday and Sunday timing is set separately.**
3. **'Su'** symbol flashes on the display – **timing is set for each day of the week separately.**



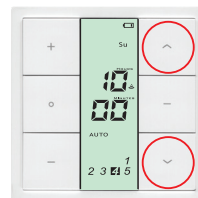
Switch to automatic mode or shuffle mode.



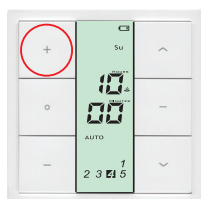
Press TIME SET button, hold it for min. 3 s.



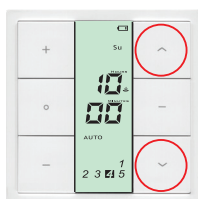
Press + to select a synchronisation method. Next, press STOP to confirm. Pressing + and – buttons select the day of the week.



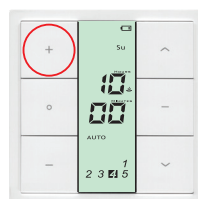
By pressing UP/DOWN buttons set the hour for the UP movement of the blind.



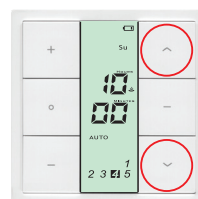
Press + to confirm and proceed to set the minutes.



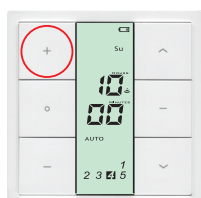
By pressing UP/DOWN buttons set the minutes for the UP movement of the blind.



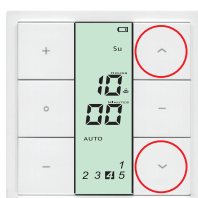
Press + to confirm and proceed to set the timing for the DOWN movement of the blind.



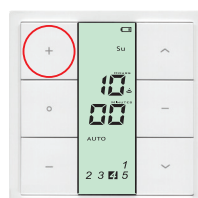
By pressing UP/DOWN buttons set the hour for the DOWN movement of the blind.



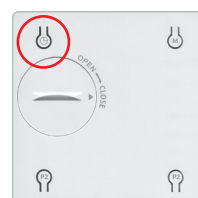
Press + to confirm and proceed to set the minutes.



By pressing UP/DOWN buttons set the minutes for the DOWN movement of the blind.



Press + to confirm and proceed to set consecutive days of the week.



Finish setting up the timing for UP/DOWN movements in selected days.

Selecting active channel – if the channel symbol is flashing, time settings have been disabled.

To activate selected channel go to the channel via automatic mode and press '+' for min 3 s.

If the channel symbol is no longer flashing – the channel has been activated.

Repeat the operation to disable time settings for the selected channel – if the channel symbol is flashing – time settings have been disabled.

