ONE - MF1 SERIES MOTOR FOR EXTERNAL VENETIAN BLINDS

wired, mechanically set end positions

230V/50Hz

05.2025

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.

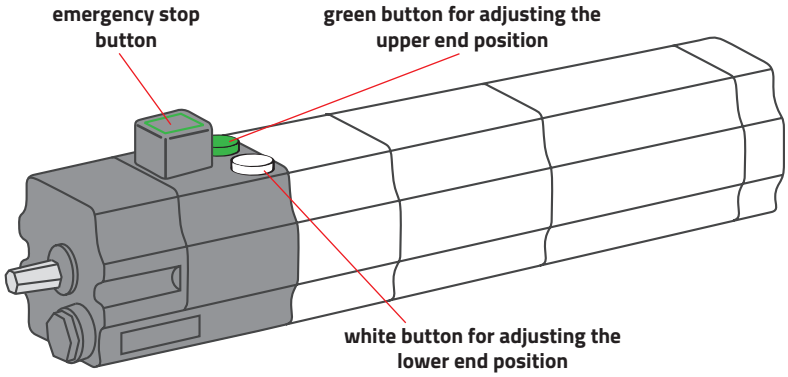
Installation of the motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence or equal licence.

ONE YBF1 radio receiver	**ONE XBF1** 1-channel remote control	**ONE XBF3** 15-channel remote control	**ONE CBF1** sun-wind sensor	**ONE SMART HOME** central control unit
				
●	●	●	●	●

● – compatible

Technical data

ONE - MF1 series motors are designed to automate the operation of external venetian blinds. They are fitted with mechanically set end positions, which stop the motor once the blind is open or closed. The motor is fitted with an emergency stop button to protect the blind from damage.



Power supply: 230 V / 50 Hz

Speed: 26 obr. / min.

Max. speed: 100

Max time of continous work: 6 min.

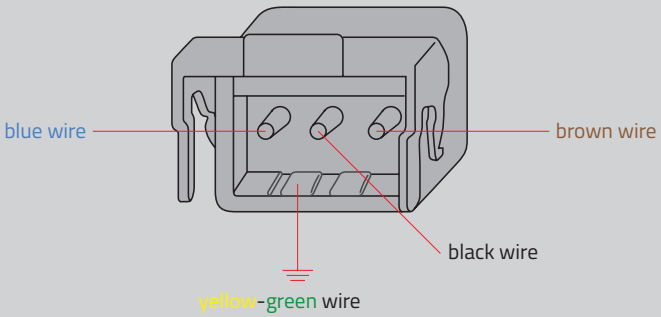
Operating temperature: from -10°C to 50°C

Protection degree: IP54

Safety measures

1. Before installing or using the motor please read the following user manual. Installation of the motor should be performed by a specialist with 1kV or higher SEP-certified electrician's licence or equal licence. 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 blind. This also results in the loss of warranty rights.
2. Motor's torque parameter should be adequate to the weight of the blind.
3. Wiring should be mounted in such a way that the wires are not damaged by the movements of the blind.
4. Electrical system control should be performed regularly to detect any signs of use or damage of the motor.
5. Electrical supply needs to be disconnected before conducting any maintenance, cleaning and/or repair work.
6. All contact of the motor with any liquids should be reduced to a minimum.
7. Children should be supervised to ensure that they do not play with the motor and its control system; mobile transmitters should be kept out of their reach.

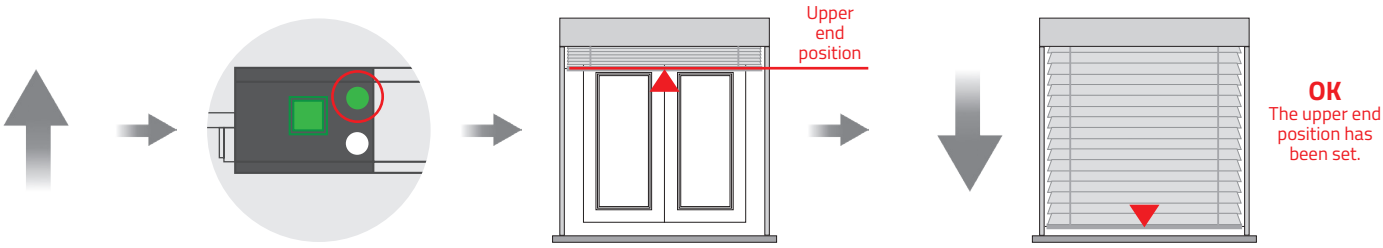
Connecting ONE MF1 motor



black wire	direction 1
brown wire	direction 2
yellow-green wire	protective
blue wire	neutral

The device is intended to be installed in locations, where it will not be directly exposed to weather conditions. The device should be installed in accordance with the state of the art as well as regulations and standards in force in Poland and within the EU. 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 loosing 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.

Adjusting upper end position



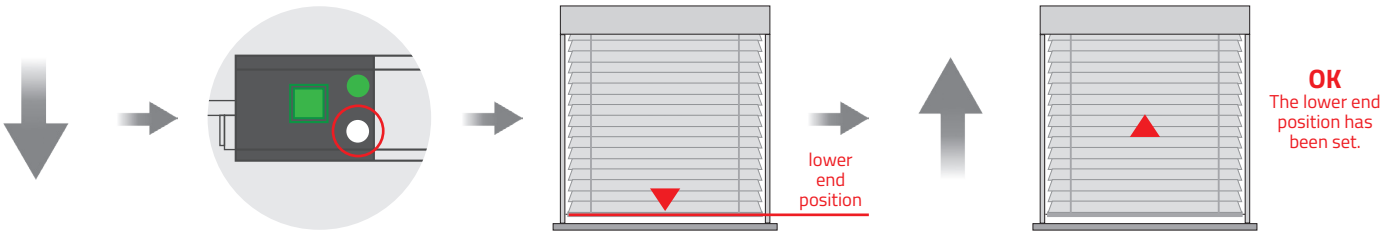
Start the motor in the UP direction.

While the blind is moving upwards, press and hold the green button for more than 5 seconds. When the button is pressed, the motor is in in the upper end position programming mode.

Stop the motor in the upper end position.

Run the motor in the opposite direction to confirm the upper end position. The green button will return to its original position.

Adjusting lower end position



Start the motor in the DOWN direction.

While the blind is moving downwards, press and hold the white button for more than 5 seconds. When the button is pressed, the motor is in in the lower end position programming mode.

Stop the motor in the lower end position.

Run the motor in the opposite direction to confirm the lower end position. The white button will return to its original position.

YBF1 radio receiver

Bi-directional radio receiver - feedback signal

433 MHz 230V/50Hz

05.2025

Failure to follow these instructions may pose a risk to life and health and may affect the correct operation of the entire blind.
It is strongly recommended to follow the operating instructions.
Installation of the motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence or equal licence.

Technical data

1. Control:
individual-device control

2. Memory:
up to 10 transmitters

3. Range:
up to 200 metres in open terrain,
up to 35 metres indoors

4. Supply voltage::
230 V / 50 Hz

5. Output voltage:
230 V / 50 Hz

6. Output capability:
500 W

7. Operating temperature:
from -10°C to +50°C

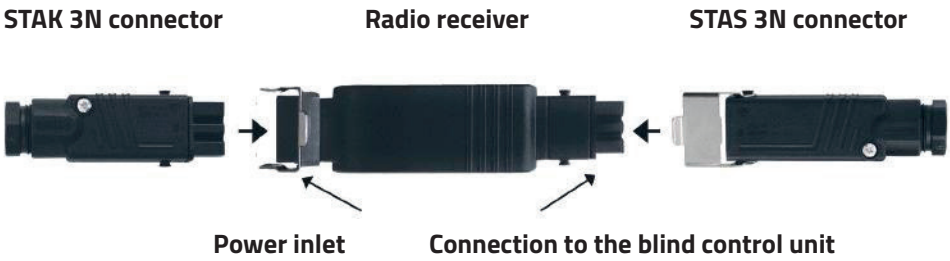
8. IP class:
IP 65

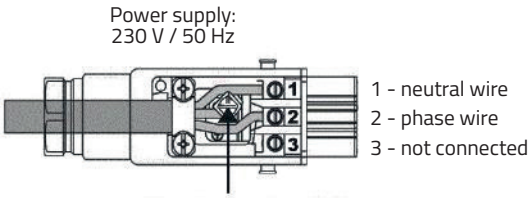
Radio receiver range is a variable value and can differ from declared values depending on conditions in which the device operates. Possible interference sources are: building construction, interference caused by other radio transmitters etc.

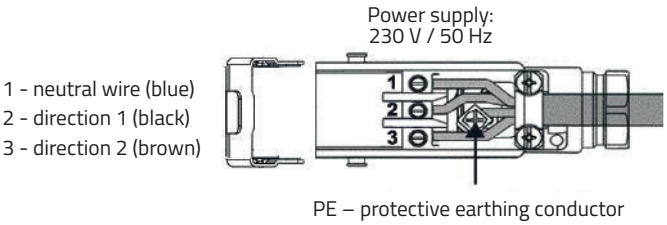
Description

Mounting

Optimum mounting distances:
a) min. distance of the receiver from the ground > 1,5 m
b) min. distance of the receiver from the ceiling and walls > 0,3 m
c) min. distance between receivers > 0,2 m



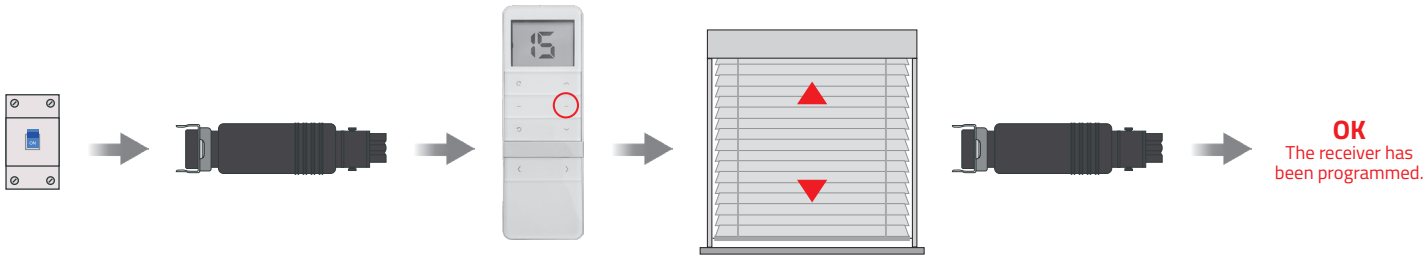




Installation of the tubular motor should be performed by specialists with 1kV or higher SEP-certified electrician's licence or equal licence. Device is designed to operate in places shielded from unfavourable weather conditions. Motor should be installed in accordance with all provisions of EU law and 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.

Programming the first transmitter

An interval of more than 10 seconds between button presses will automatically exit the programming mode without saving the changes made.



Switch on the power supply.

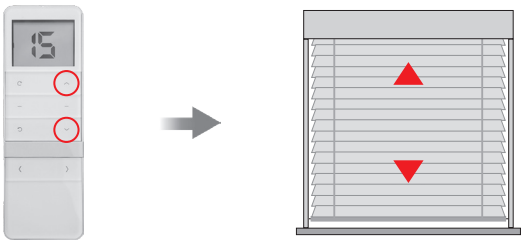
Receiver makes a beeping sound.

Press and hold DOWN for 2 seconds the STOP button on the remote.

The blind makes 2 short up/down movements. Receiver beeps 3 times.

Changing motor direction

If the DOWN key raises the blind and the UP key lowers it, the key assignments must be swapped.



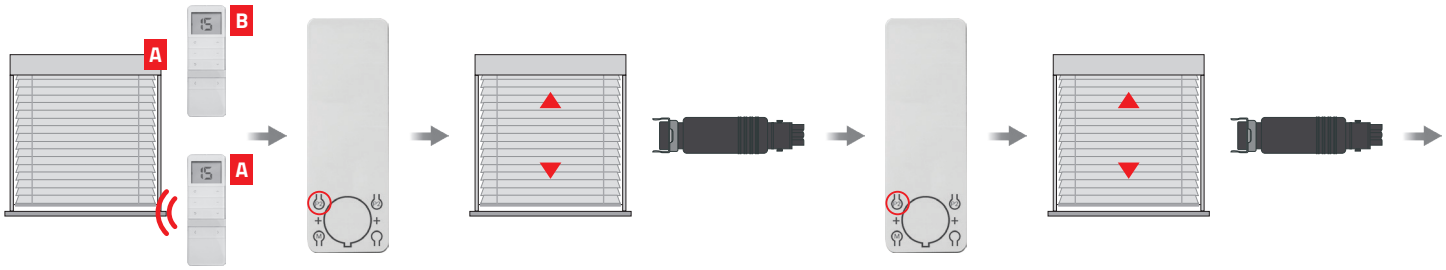
Simultaneously press and hold UP and DOWN buttons for 2 seconds, the blind makes short up/down movements.

OK
The receiver has been programmed.

Programming the next transmitter

1. The receiver can be controlled by a maximum of 10 transmitters.
2. An interval of more than 10 seconds between button presses will automatically exit the programming mode without saving the changes made.

METHOD 1:

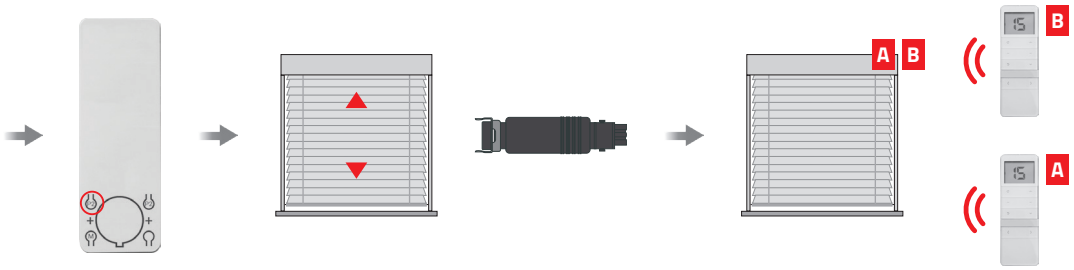


Press P2 programming button on remote control „A".

The blind makes short up/down movements.
Receiver makes a beeping sound.

Press P2 programming button on remote control „A".

The blind makes short up/down movements.
Receiver makes a beeping sound.

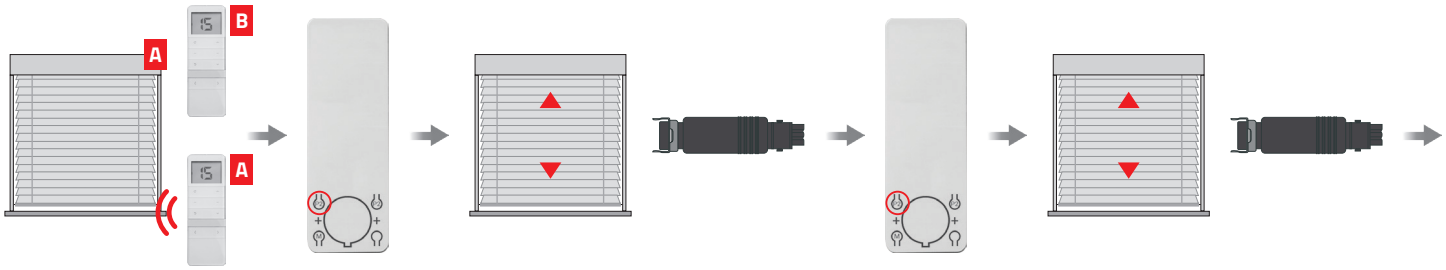


Press P2 programming button on remote control „B".

The blind makes short up/down movements.
Receiver beeps 3 times.

Remote control „B" has been programmed.

METHOD 2:

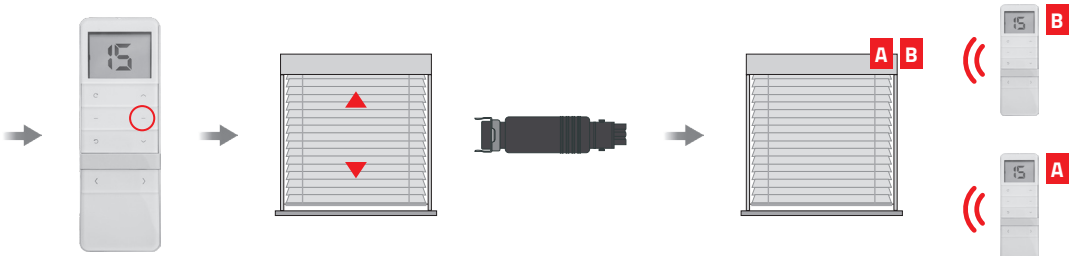


Press P2 programming button on remote control „A".

The blind makes short up/down movements. LED light flashes once.

Press P2 programming button on remote control „A".

The blind makes short up/down movements. LED light flashes once.

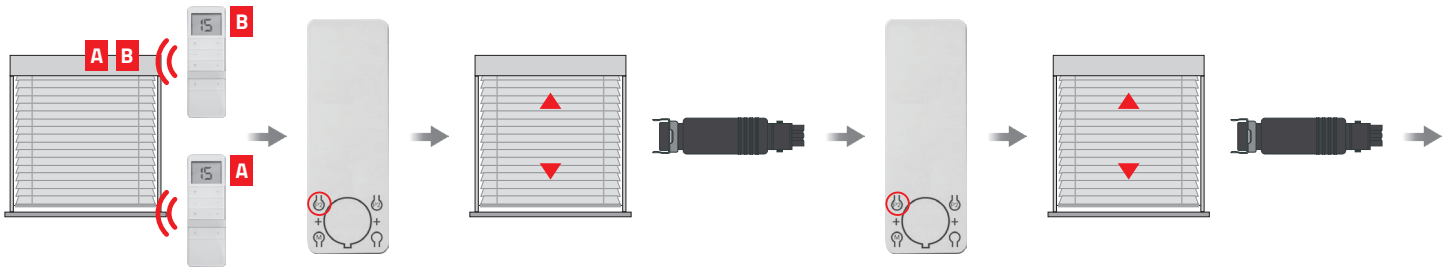


Press STOP button on remote control „B", hold it for 2 seconds.

The blind makes short up/down movements. Receiver beeps 3 times.

Remote control „B" has been programmed.

Removing additional transmitter

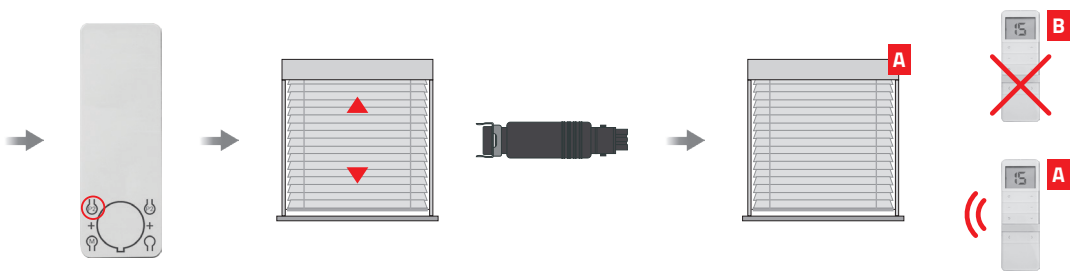


Press P2 programming button on remote control „A".

The blind makes short up/down movements Motor makes a beeping sound.

Press P2 programming button on remote control „A".

The blind makes short up/down movements Motor makes a beeping sound.



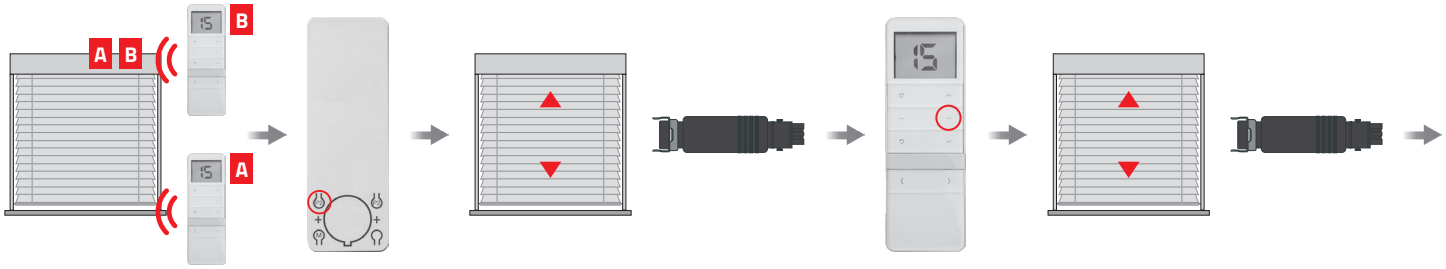
Press P2 programming button on remote control „B".

The blind makes 2 short up/down movements Motor beeps 3 times.

Remote control „B" has been deleted.

Deleting all transmitters

Deleting all transmitters does not delete the end positions.

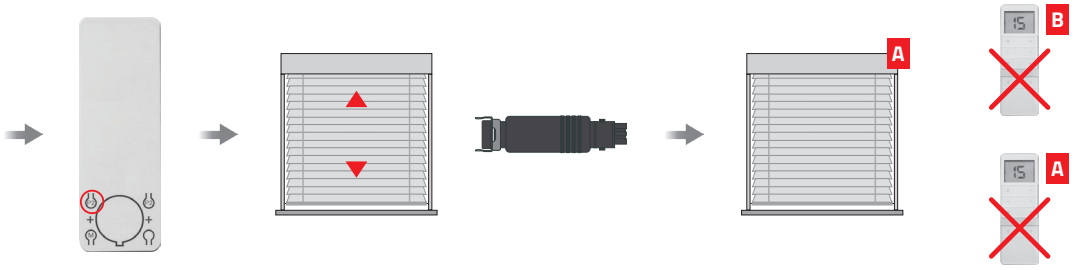


Press P2 programming button.

The blind makes short up/down movements
Motor makes a beeping sound.

Press STOP button.

The blind makes short up/down movements
Motor makes a beeping sound.



Press P2 programming button.

The blind makes 2 short up/down movements
Motor beeps 3 times.

All transmitters have been deleted.

Pulse mode activation

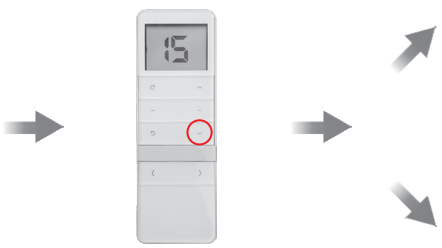
1. An interval of more than 6 seconds between button presses will automatically exit the programming mode without saving the changes made.
2. To activate the pulse mode follow the procedure below, while to deactivate the mode, repeat the procedure.
3. The impulse function is implemented in such a way that a short press on the UP or DOWN button makes the motor run in steps, while holding the button down for more than 2 seconds will make the motor run continuously.

Press P2 programming button.

The blind makes short up/down movements.

Press UP button.

The blind makes short up/down movements.



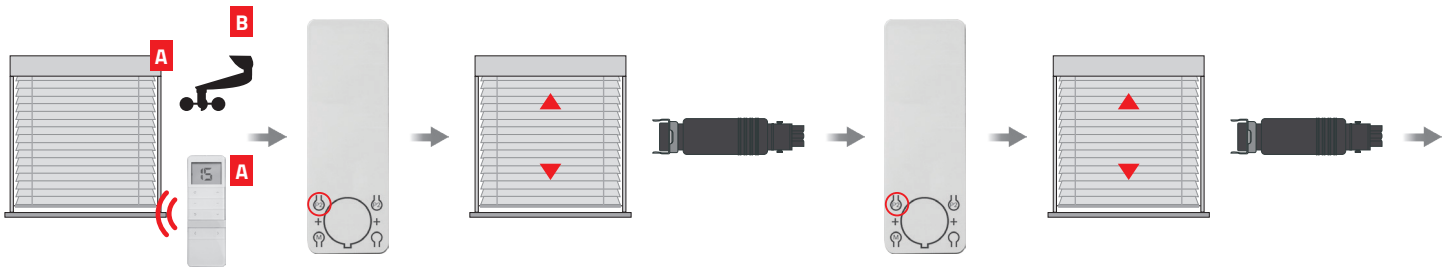
Press DOWN button.

If the blind makes a short movement in both directions and the motor makes a beeping sound, pulse mode is **ON**.

If the blind makes two short movements in both directions and the motor beeps 3 times, impulse mode is **OFF**.

Adding a wind and sun sensor

1. When the sensor sends a high sun signal, the motor starts and stops in the lower end position.
2. When the sensor sends a low sun signal, the motor will start and stop in the upper end position.
3. When the sensor sends a strong wind signal, the motor starts and stops in the upper end position and the remote control cannot control the motor for 8 minutes.

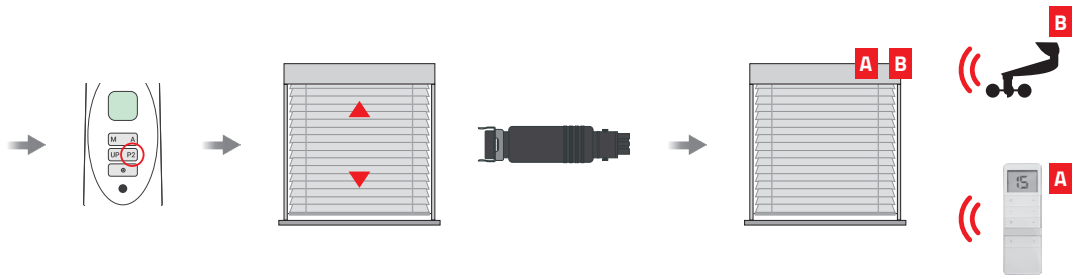


Press P2 programming button on remote control „A".

The blind makes short up/down movements. The motor makes a beeping sound.

Press P2 programming button on remote control „A".

The blind makes short up/down movements. The motor makes a beeping sound.



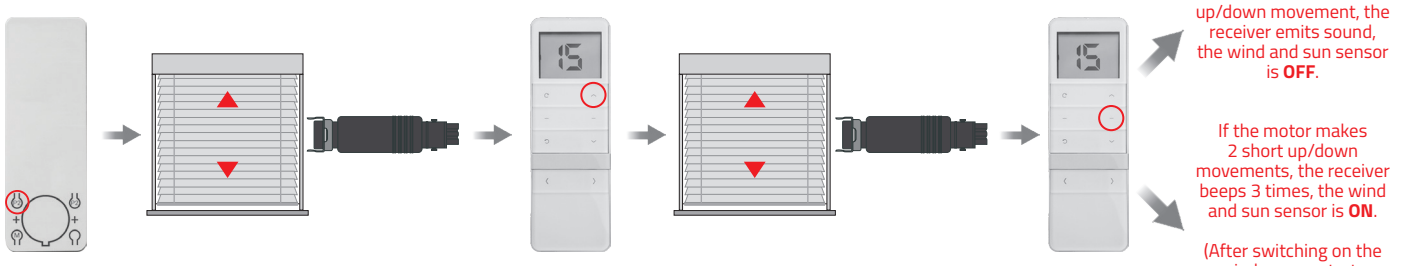
Press P2 programming button on the sensor.

The blind makes 2 short up/down movements. The motor beeps 3 times.

The sensor has been programmed.

Switching the wind and sun sensor off/on

By default, the wind and sun sensor is switched on.



Press P2 programming button.

The blind makes short up/down movements. The motor makes a beeping sound.

Press UP button.

The blind makes short up/down movements. The motor makes a beeping sound.

Press STOP button.

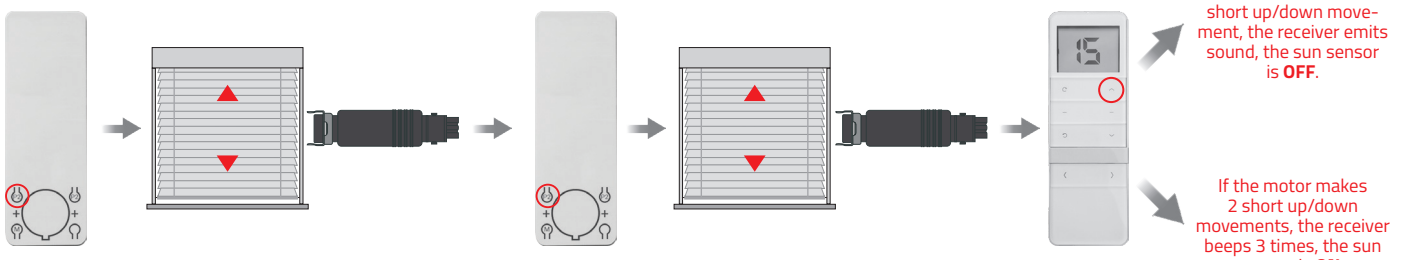
If the motor makes a short up/down movement, the receiver emits sound, the wind and sun sensor is **OFF**.

If the motor makes 2 short up/down movements, the receiver beeps 3 times, the wind and sun sensor is **ON**.

(After switching on the wind sensor starts functioning correctly after approx. 30 minutes).

Switching the sun sensor off/on

By default, the sun sensor is switched on.



Press P2 programming button.

The blind makes short up/down movements. The motor makes a beeping sound.

Press P2 programming button.

The blind makes short up/down movements. The motor makes a beeping sound.

Press UP button.

If the motor makes a short up/down movement, the receiver emits sound, the sun sensor is **OFF**.

If the motor makes 2 short up/down movements, the receiver beeps 3 times, the sun sensor is **ON**.