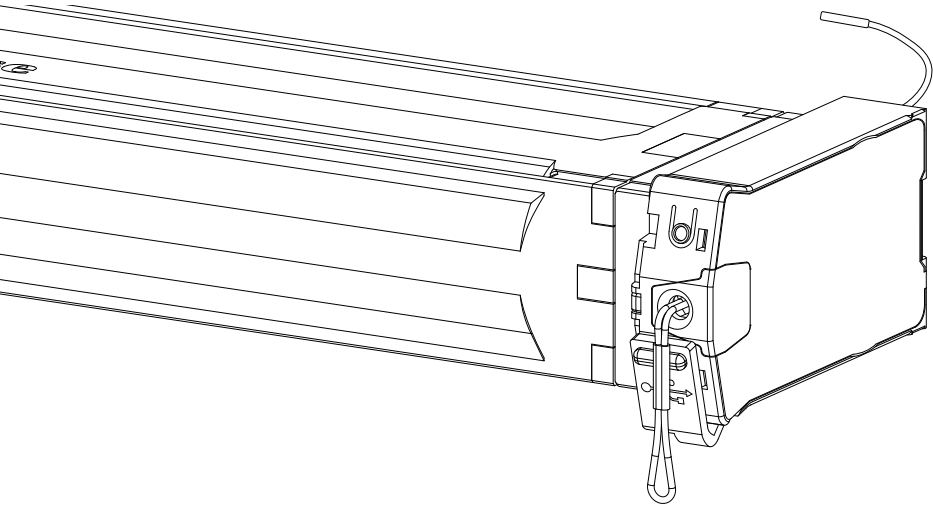


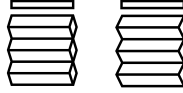
MANUAL CM-08

Li-ion battery powered end motor with
pull and remote operation



CM-08

Li-ion battery powered end motor with
pull and remote operation



Motor features



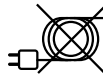
Li-ion Battery

Integrated
lithium-ion battery



USB Rechargeable

Rechargeable with
micro USB



Wireless

Cable free
installation



Speed Control

Consistent
rolling speed



Bi-directional

Two-way communi-
cation for real-time
response

Control options



Pull Control

Operate with
pull control



Remote Control

Operate with a
remote controls



App Control

Operate with the
MOTION app



Connectivity

Compatible with
home and building
automation

Support



Video

How to install,
program and operate
rtube.nl/red986



App Store

Download the
MOTION app
rtube.nl/red981

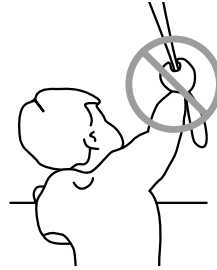


Google Play

Download the
MOTION app
rtube.nl/red982

WARNING

Read the instructions carefully before assembling and using the product. Assembly can be completed by non-professionals. For indoor use only.



- Young children can strangle themselves with the loop of pull cords, chains and tapes, and cords that operate window coverings.
- To avoid strangulation and entanglement, keep cords out of reach of young children.
- Cords may ensnare a child's neck.
- Move beds, cots and furniture away from window covering cords.
- Do not tie cords together.
- Make sure cords do not twist together and form a loop.

Cleaning

Follow these general rules when cleaning the outside of the device and its components:

- Use a damp, soft, lint-free cloth. Avoid getting moisture in openings.
- Do not use aerosol sprays, solvents, alcohol, or abrasives.

Service & Support

Do not perform repairs yourself. Do not attempt to open the device or disassemble it. You run the risk of electric shock and voiding the limited warranty. No user-serviceable parts are inside.

Warranty Service

First follow the advice in this manual. If the product appears to be damaged or does not function properly, go to your local dealer for instructions on how to obtain warranty service.



IP 20



Conforms to
UL Std. 325
Certified to
CSA Std. C22.2#247

Important Safety instructions

WARNING: To reduce the risk of severe injury or death, it is important to follow these instructions for personal safety. Save these instructions.

- Read and follow all installation instructions.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should not play with the appliance. Cleaning and user maintenance should not be performed by children without supervision.
- Do not allow children to play with fixed controls. Keep remote controls away from children.
- Frequently examine the installation for imbalance and signs of wear or damage to cables and springs. Do not use if repair or adjustment is necessary.
- This instruction manual is also available on the website.
- The drive must be disconnected from its power source during cleaning, maintenance and when replacing parts.
- The A-weighted emission sound pressure level of the drive is equal to or less than 70dB(A).
- Indoor and household use only.
- Disconnect the drive from the power supply or switch off the automatic controls when maintenance, such as window cleaning, is being carried out in the vicinity.
- When operating a biased switch, make sure that other persons are kept away.
- Do not operate when maintenance, such as window cleaning, is being carried out in the vicinity.
- The tube motor must only be supplied with safety extra low voltage corresponding to the marking on the appliance.
- This appliance contains batteries that are non-replaceable.

Important Installation instructions

WARNING: Important safety instructions. Follow all instructions, since incorrect installation can lead to severe injury.

- This motor can only be used with soft material for driven parts.
- Hazardous unprotected moving parts of the drive must be installed higher than 2.5m above the floor or any other level surface that could provide access to it.
- Install the actuating member of a manual release at a height less than 1.8m.
- The actuating member of a biased switch is to be located within direct sight of the driven part but away from moving parts. It is to be installed at a minimum height of 1.5m and not accessible to the public.
- The mass and the dimension of the driven part must be compatible with the rated torque and rated operating time.
- Fixed controls have to be clearly visible after installation.
- The driven part must be compatible with the rated torque (0.6 N.m) and rated operating time (12 min).
- Minimum tube diameter: $\varnothing 25\text{mm}$.
- The drive is intended to be installed at a height of at least 2.5m above the floor or any other accessible level surface.
- All-pole disconnection switches must be incorporated in the fixed wiring in accordance with the wiring rules.

FCC Manual

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 (1) this device may not cause harmful interference, and
 (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID: ZY4CM08

Regulatory Information

1 FCC Information for User

This product does not contain any user serviceable components and is to be used with approved antennas only. Any product changes or modifications will invalidate all applicable regulatory certifications and approvals.

2 FCC Electronic Emission Notices

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
 1. This device may not cause harmful interference
 2. This device must accept any interference received, including interference that may cause undesired operation.




3 FCC Radio Frequency Interference statement




This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be required to correct the interference at their own expense.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

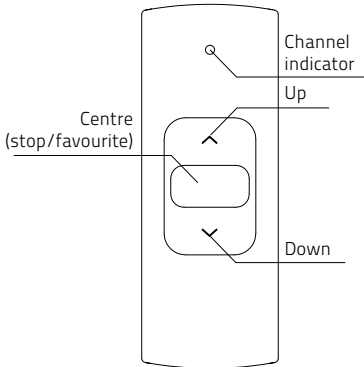
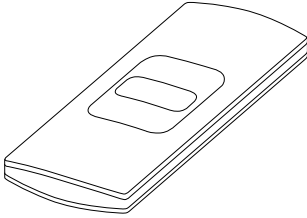
- Reorient or relocate the receiving antenna
- Increase the distance separating the equipment and receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

MOTION CM-08 LI-ION END MOTOR

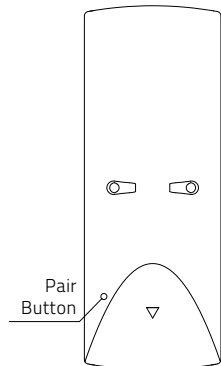
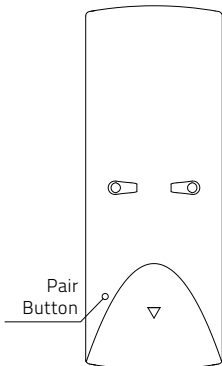
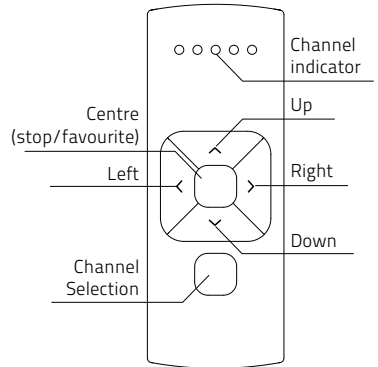
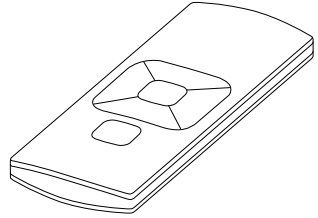
	Channels	Wall Mount	Program blinds	Single select	Channel select	Max. blinds
	1	■	■	-	-	unlimited
	5	■	■	■	■	Unlimited
	15	■	■	■	■	Unlimited

Max. scenes	Frequency	Range	Power supply	Length	Width	Height	Certificates
n/a	433 MHz	30 m with 1 concrete wall	CR2430 3.0V	120 mm	45 mm	14 mm	
n/a	433 MHz	30 m with 1 concrete wall	CR2430 3.0V	120 mm	45 mm	14 mm	
n/a	433 MHz	30 m with 1 concrete wall	CR2430 3.0V	120 mm	45 mm	14 mm	

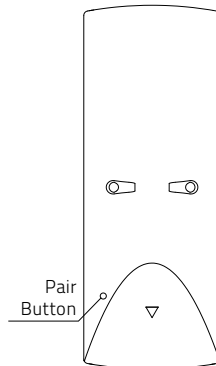
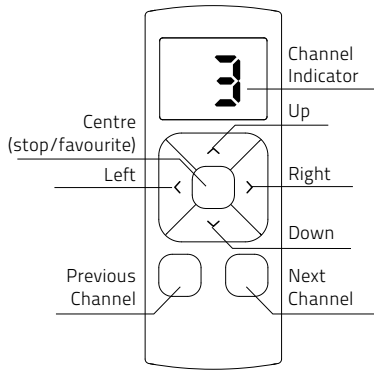
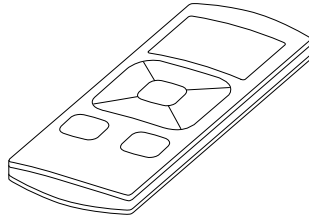
CM-11
1 Channel Remote

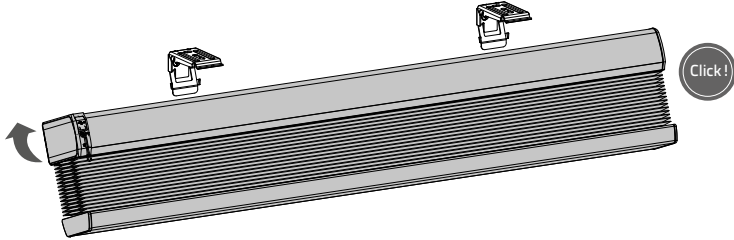


CM-12
5 Channel Remote

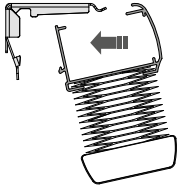


CM-13
15 Channel Remote

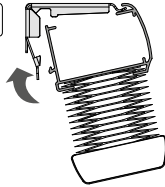


1 Install the blind**2**

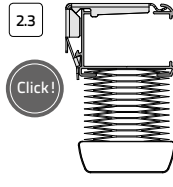
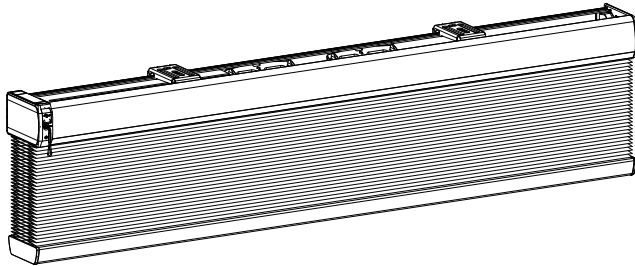
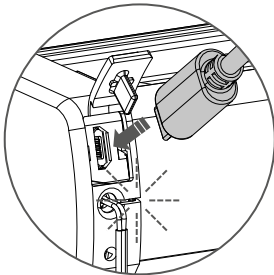
2.1



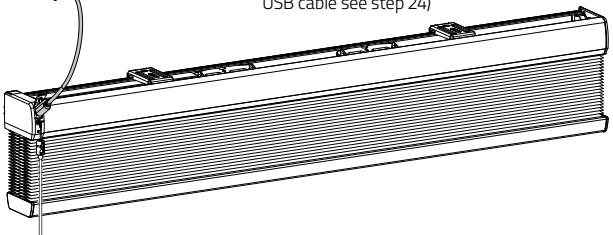
2.2



2.3

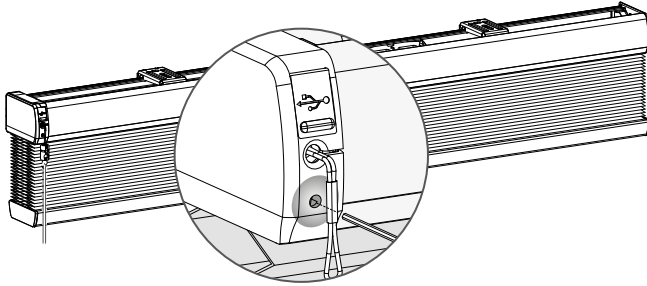
**3****4** Activate the motor

Activate the motor by charging it with a micro USB cable. A green LED will start flashing. The motor can be used during charging. (To activate the motor without a micro USB cable see step 24)



5 Pair a remote

i Pair a remote control that is able to program blinds. See pages 4 and 5 for remote controls details. In this manual CM-12 is displayed.

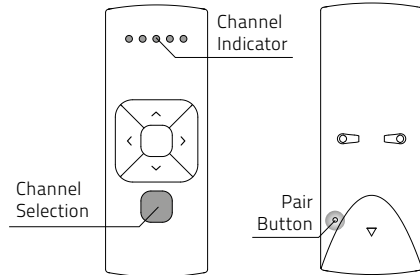


5.1 Shortly press the **program** button on the motor. The blind will start stepping, indicating that program mode has been activated. (The blind remains stepping until the program mode is de-activated.)

5.2 Select a desired channel for the blind using the **channel selection** button on the remote control.

5.3 Press the **pair** button on the back of the remote control to pair the blind to the selected channel. The blind will shortly stop stepping indicating that the remote has been paired to the blind.

i Repeat steps 5.1 - 5.3 to remove a blind from a channel.

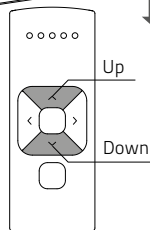
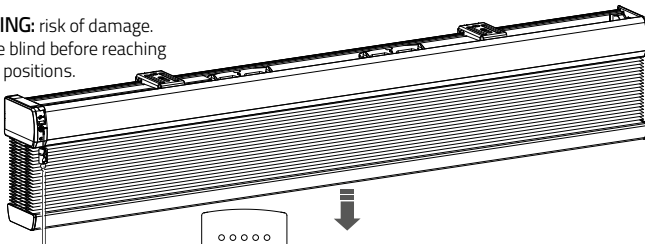


i End limits must be programmed to use a blind properly and to prevent it from being damaged. Proceed to step 11 if end limits are already set.

6 Check direction of rotation



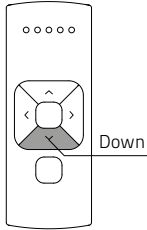
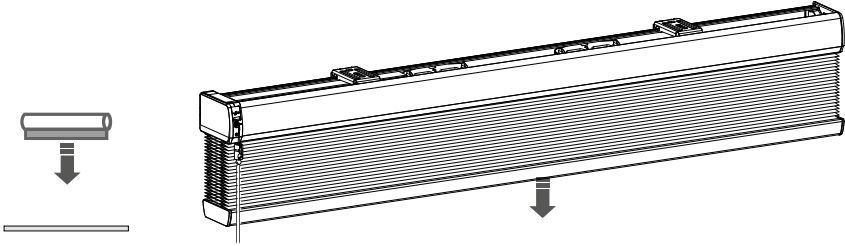
WARNING: risk of damage.
Stop the blind before reaching the end positions.



6.1 Shortly press the **down** button to check if the blind unrolls the right way. If the blind moves up, the direction of rotation must be changed.

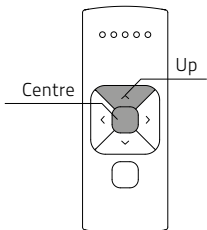
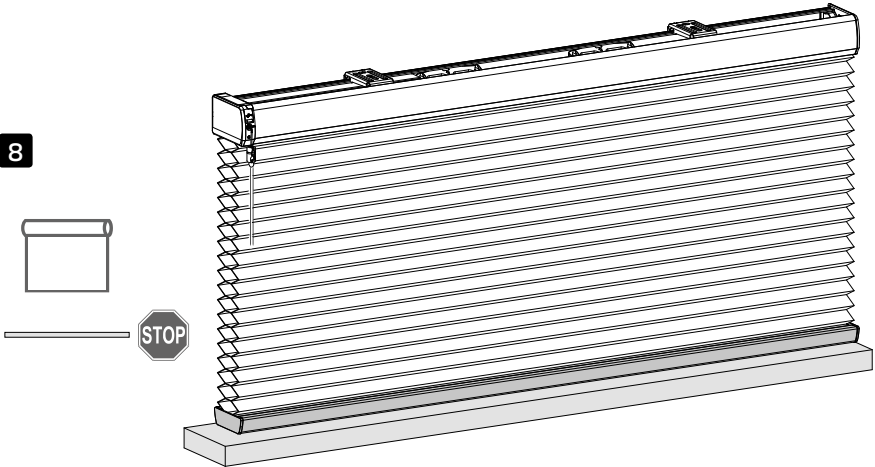
6.2 Simultaneously press the **up** and **down** button to change the direction of rotation.

7 Set bottom position



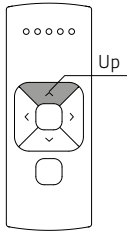
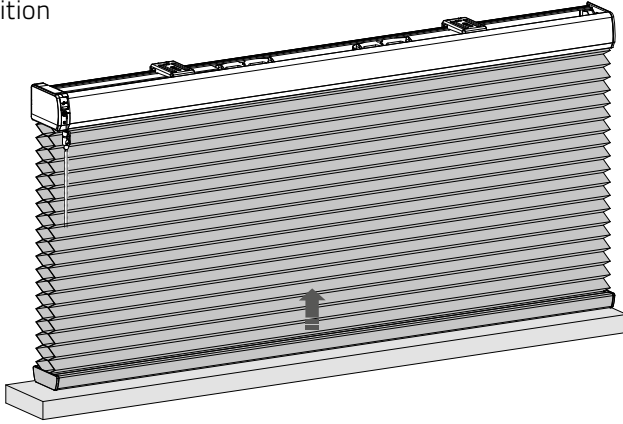
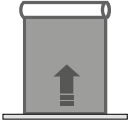
7.1 Press and hold the **down** button until the blind reaches the desired bottom position.
WARNING: Risk of damage.
 Slowly approach the bottom position.

8



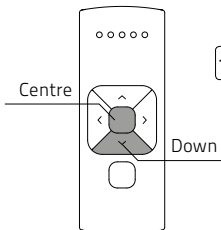
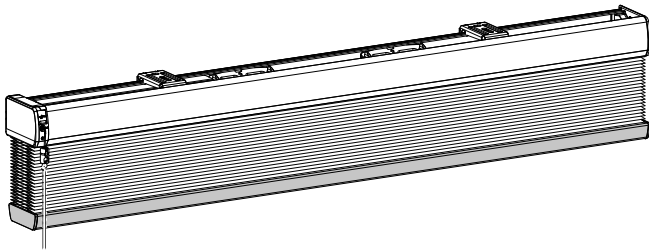
8.1 Simultaneously hold the **centre** and the **up** button until the blind stops stepping and starts stepping again.
 The bottom position has been saved.

9 Set top position

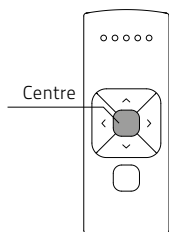
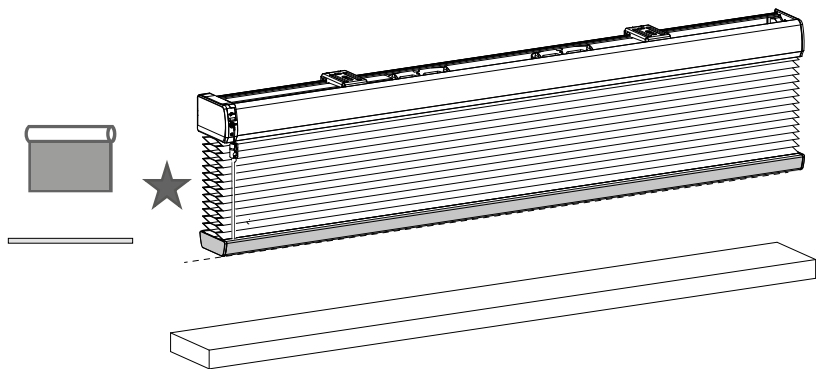


- 9.1** Press and hold the **up** button until the blind reaches the desired top position.
WARNING: Risk of damage.
 Slowly approach the top position.

10

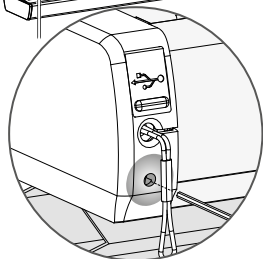
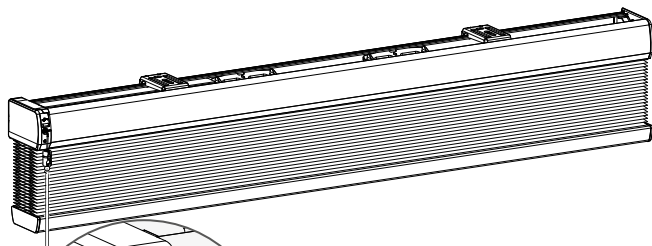


- 10.1** Simultaneously hold the **centre** and the **down** button until the blind stops stepping and starts stepping again.
 The top position has been saved.

11 Set favourite position (optional)

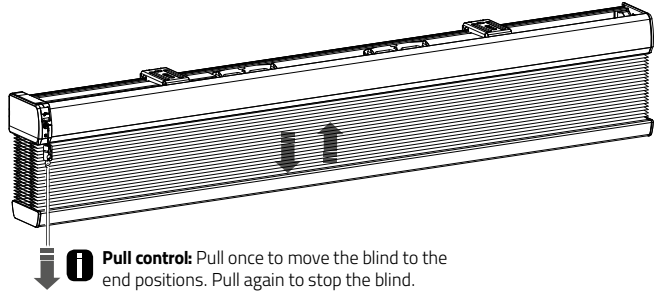
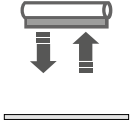
11.1 Move the blind to a desired favourite position.

11.2 Hold the centre button to save this favourite position. The blind shortly stops stepping, indicating the favourite position has been saved.

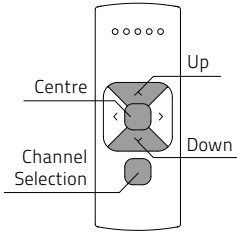
12 De-activate program mode

12.1 Shortly press the program button to de-activate program mode. The blind stops stepping and can be operated.

13 Operate the blind

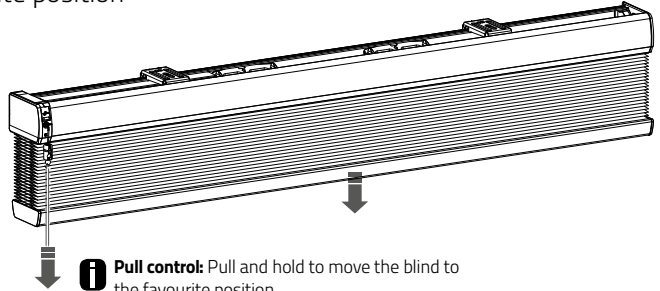
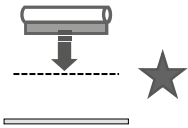


i Pull control: Pull once to move the blind to the end positions. Pull again to stop the blind.

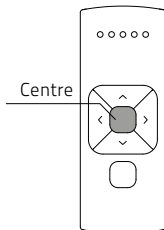


i Remote control: Choose the channel to which the blind has been paired using the **channel** button. Press the **up** or **down** button to operate the blind. Press the **centre** button to stop the blind.

14 Operate to favourite position

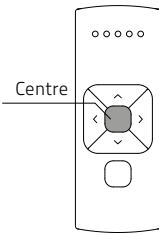
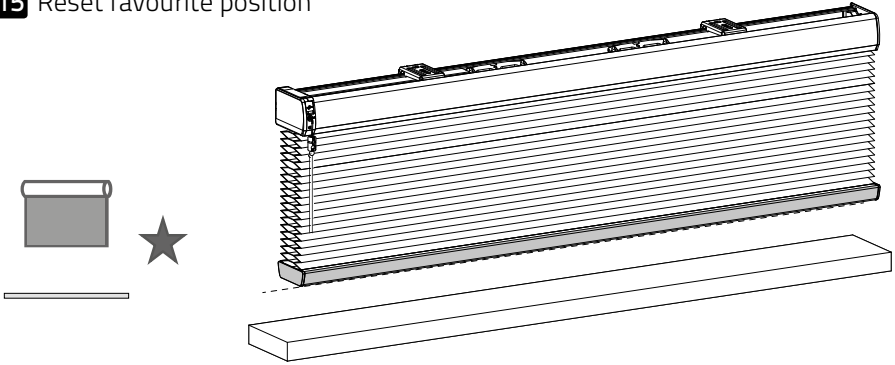


i Pull control: Pull and hold to move the blind to the favourite position.



i Remote control: Press the **centre** button to move the blind to the favourite position.

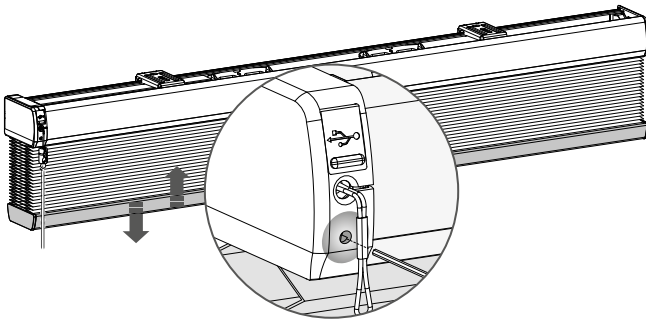
15 Reset favourite position



- 15.1 Move the blind to a desired favourite position.
- 15.2 Press the **program** button on the motor to activate program mode. The blind starts stepping.
- 15.3 Hold the **centre** button to save this favourite position. The blind shortly stops stepping indicating the favourite position has been saved successfully.
- 15.4 Press the **program** button on the motor to de-activate program mode. The blind stops stepping.

16 De-activate direct control

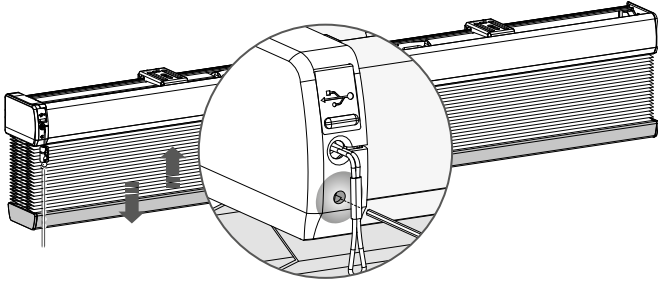
i When pressing the up or down button on the remote control the blind directly moves to its end positions (direct control). To operate the blind with smaller steps using the up and down button, direct control can be de-activated. Now, the blind only directly moves to its end positions when the up or down button is held longer than two seconds.



- 16.1 Press the **program** button on the motor to activate program mode. The blind starts stepping.
- 16.2 Hold the **program** button until the blind stops stepping (approximately 5 seconds) to de-activate or re-activate direct control.

17 Reset the blind

- i** It is possible to only delete end limits or to do a factory reset.
Factory reset will delete the end limits and remove the connection to any paired remote.

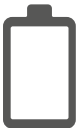
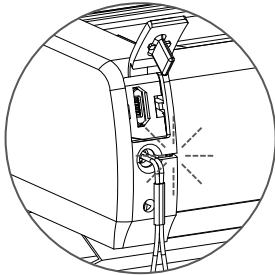


17.1 Press the program button on the motor to activate program mode.

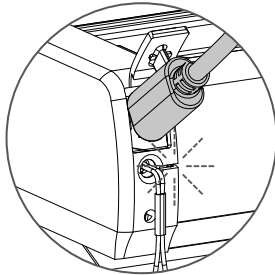
- i** **Delete end limits:** To delete the end limits of the blind hold the **program** button until the blind stops stepping for the first time, keep holding the button until the blind stops stepping for the second time. (approximately 10 seconds)
- i** **Factory reset:** To reset the blind to factory defaults hold the button for at least 20 seconds. The blind will stop stepping twice. After the second stop the blind will give one extra step to confirm factory reset.

18 Recharge the battery

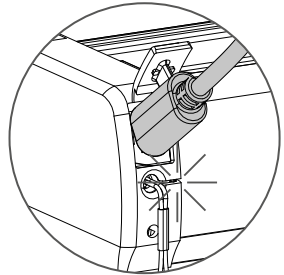
Use a micro USB cable to charge the motor.



LED light flashes red during operation; charge the battery.



LED light flashes green; battery is charging.

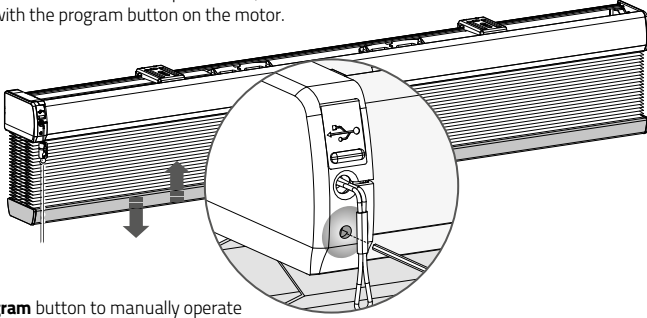


LED light constantly green; battery is fully charged.

i Advanced options

19 Manual control

i In case there is no remote control or pull control, the blind can be operated with the program button on the motor.

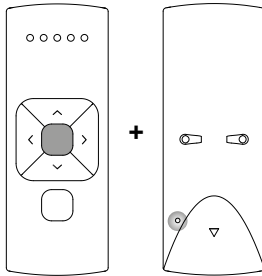


- 20.1** Hold the **program** button to manually operate the blind. The blind will move as long as the button is being pressed. (max. 15 sec.)
- 20.2** To move the blind in opposite direction, release the **program** button and repeat step 19.1.

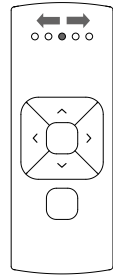
20 Single select 5 channel remote

i Single select makes it possible to activate program mode on a single blind through a remote control, without having to physically press the program button on the blind.

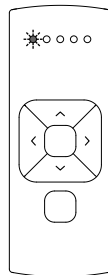
- 20.1** To activate Single select simultaneously hold the **centre** button and press the **pair** button.



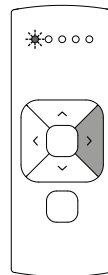
- 20.2** The remote starts searching for blinds (search mode). This is indicated by the LED's flashing from left to right.



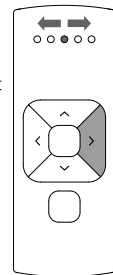
- 20.3** Once a blind is found the channel LED will flash and the blind starts stepping, indicating that program mode has been activated. The blind can now be (un)paired to the remote and/or programmed.



- 20.4** To search for the next blind press the **right** button. Search mode will be activated. To find the previous blind press the left button.



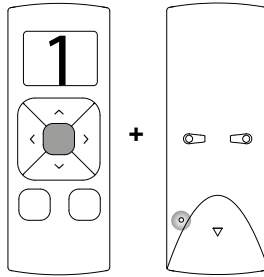
- 20.5** To exit Single select press the **right** button during search mode.



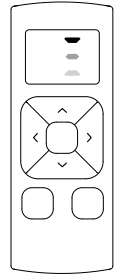
21 Single select 15 channel remote

i Single select makes it possible to activate program mode on a single blind through a remote control, without having to physically press the program button on the blind.

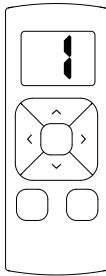
21.1 To activate Single select simultaneously hold the **centre** button and press the **pair** button.



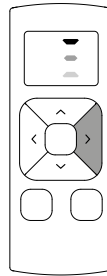
21.2 The remote starts searching for blinds (search mode). This is indicated by the horizontal bars on the remote.



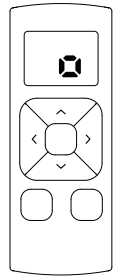
21.3 Once a blind is found the channel number will flash and the blind starts stepping, indicating that program mode has been activated. The blind can now be (un)paired to the remote and/or programmed.



21.4 To search for the next blind press the **right** button. Search mode will be activated. To find the previous blind press the left button.



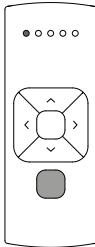
21.5 To exit Single select press the **right** button during search mode. The display shows the letter **O**.



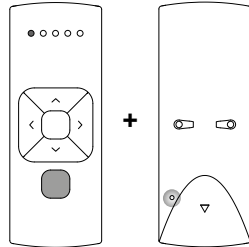
22 Channel select 5 channel remote

i Channel select makes it possible to copy blinds in between channels/remotes without having to physically press the program button on the motors.

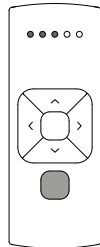
22.1 Select the channel from which the blinds must be copied.



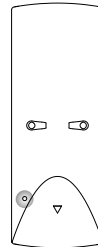
22.2 To activate channel select simultaneously hold the **channel selection** button and press the **pair** button.



22.3 All blinds in the selected channel will start stepping, indicating program mode has been activated. All blinds can be copied to a new channel on the same remote or other remote. Select a new channel on the (new) remote.



22.4 Press the pair button on the (new) remote to pair the blinds to the new channel.

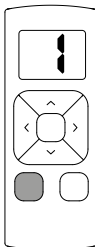


22.5 To exit channel select go back to the channel selected at step 22.1 and repeat step 22.2

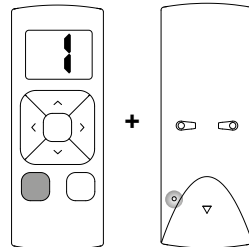
23 Channel select 15 channel remote

i Channel select makes it possible to copy blinds in between channels/remotes without having to physically press the program button on the motors.

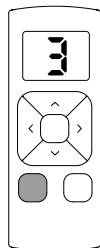
23.1 Select the channel you would like to copy.



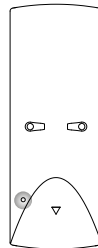
23.2 To activate channel select simultaneously hold the **channel selection** button and press the **pair** button.



23.3 All blinds in the selected channel will start stepping, indicating program mode has been activated. All blinds can be copied to a new channel on the same remote or to other remotes. Select a channel on a (new) remote.



23.4 Press program button on the (new) remote to pair the blinds to the (new) remote.



23.5 To exit channel select choose the channel you selected at step 23.1 and repeat step 23.2

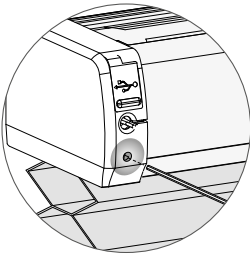
24 Activate / de-activate the motor



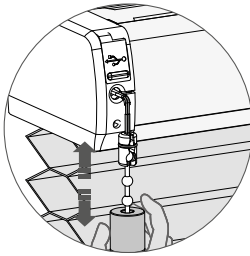
To prevent the blind from damage the motor has a transport mode that makes sure the blind will not be activated before installation.

24.1

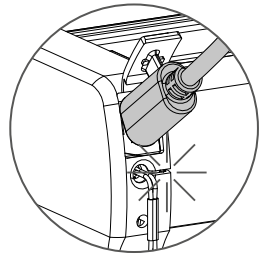
Hold the program button and pull twice to activate or de-activate the motor.
The motor can also be activated by charging it with a micro USB cable.



+

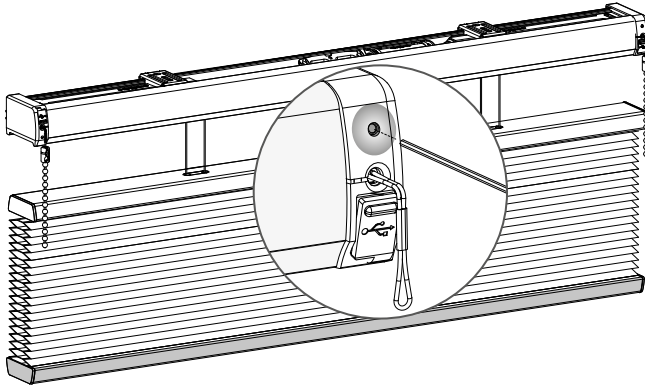


or

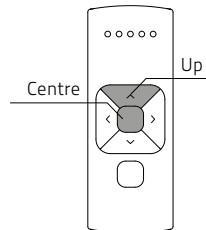
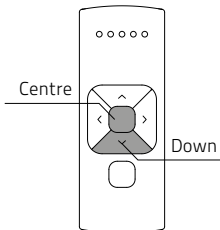


25 Top-down/bottom-up (bottom rail)

i Top-down/bottom-up blinds are powered by two motors: one for the bottom rail and one for the middle rail. The motors need to be programmed individually: first the bottom rail motor and then the middle rail motor.



25.1 Pair the bottom rail motor to an empty channel on the remote. (see step 5)

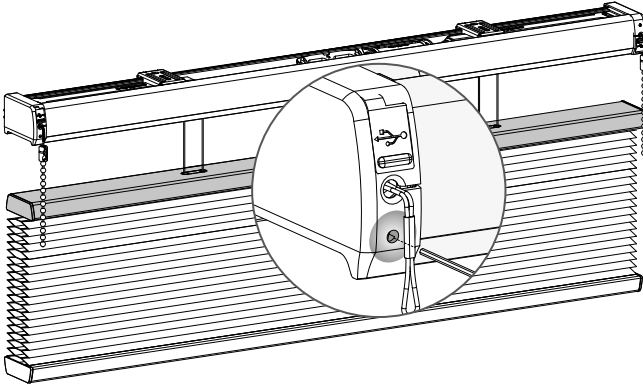


25.2 Check the direction of rotation of the bottom rail (see step 6) and move the bottom rail to the desired top position. Simultaneously hold the **centre** and the **down** button on the remote until the blind stops stepping and starts stepping again. The top position has been saved

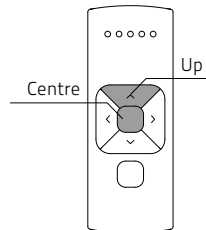
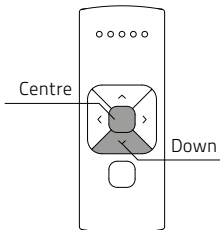
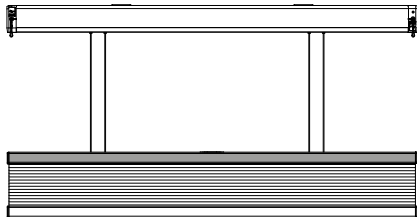
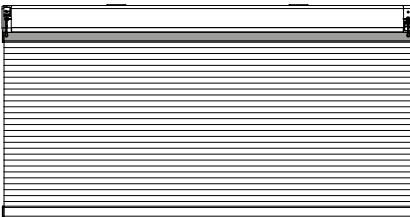
25.3 Move the bottom rail to the desired bottom position. Program the bottom position of the bottom bar. Simultaneously hold the **centre** and the **up** button on the remote until the blind stops stepping and starts stepping again. The bottom position has been saved

26 Top-down/bottom-up (middle rail)

i Top-down/bottom-up blinds are powered by two motors: one for the bottom rail and one for the middle rail. The motors need to be programmed individually: first the bottom rail motor and then the middle rail motor.



27.1 Pair the middle rail motor to an empty channel on the remote. (see step 5)



26.2 Check the direction of rotation of the middle rail (see step 6) and move the bottom rail to the desired top position. Simultaneously hold the **centre** and the **down** button on the remote until the blind stops stepping and starts stepping again. The top position has been saved

26.3 Move the middle rail to the desired bottom position. Program the bottom position of the bottom bar. Simultaneously hold the **centre** and the **up** button on the remote until the blind stops stepping and starts stepping again. The bottom position has been saved

Frequently Asked Questions

Problem	Cause	Solution
Blind does not work.	Motor is in transport mode.	Activate the motor. See step 24.
	Motor battery is empty.	Charge the motor. See step 18.
	Remote battery is empty. (LEDS of remote are flashing rapidly.)	Replace the battery in the remote. See the manual of the remote.
	Remote battery is inserted incorrectly.	Replace the battery in the remote. See the manual of the remote.
	Radio-frequency interference	Make sure that the antenna of the motor is out of the way from metal objects.
	The distance from the remote to the motor is too far.	Move closer to the motor.
	The remote is not connected to the blind.	Pair the remote to the motor. See step 6.
Motor LED flashes red.	The battery of the motor is empty.	Charge the motor. See step 18.
Blind is not charging.	Charger is not plugged in or does not work.	Try a different charger or make sure the charger is plugged in the outlet.
Multiple blinds respond to a remote. (Unable to program a single blind)	Multiple blinds are paired to a single channel.	Pair the blind to a free channel to program or use single select to program the blind.
Blind moves in small steps.	1) No end limits are programmed. 2) Direct control is de-activated.	1) Program end limits. See step 7 - 10. 2) Activate direct control. See step 16.
Favourite position can not be programmed.	No end limits are programmed.	Program end limits. See step 7 - 10.
Blind lowers too far.	End limits are programmed incorrect.	Reprogram end limits. See step 7- 10.
Blind moves in the opposite direction.	The direction of rotation has been set incorrect.	Change the direction of rotation. See step 6.
The blind keeps moving up and down.	The blind is in program mode.	Press the program button on the motor to exit program mode.