BREL HOME

INSTALLATION MANUAL

Lio motors

This manual is suitable for the following types of motors:

- BLE15
- BLE20
- BLE25
- BLEQ28
- BLEQ35-06
- BLE35-13 USB-C

Read the manual before starting the installation. Failure to follow the instructions may result in defects that cannot be claimed under warranty.

Visit our website www.brel-home.com for more information

Scan the QR code to view the manual and instruction videos

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Warnings

Declaration of Conformity

This product complies with the essential requirements of the following European directives:

Radio Equipment Directive (RED) 2014/53/EU: Meets the requirements for radio communications, such as safety, health, and efficient use of the radio spectrum.

Electromagnetic Compatibility (EMC) Directive 2014/30/EU: Meets electromagnetic emission and immunity standards to prevent interference.

Restriction of Hazardous Substances Directive (RoHS) 2011/65/EU: The product complies with the directives relating to the use of hazardous substances.

Machinery Directive (MD) 2006/42/EC: Meets the safety requirements for the design and manufacture of machinery, including mechanical and electrical safety.

Note: This document is a summary. Please refer to the full Declaration of Conformity for detailed information.



Wiring



Installation and charging of the motor

This installation has usually already been carried out at the factory.

Place the adapter and the adapter on the motor and secure the adapter with the clip.

Install the motor with the motor mounts making sure they are properly secured.

Mount the motor in the tube of the sun blinds.

The motor must be charged with a DC-212(EU), DC-213(UK) or DC-200 (US). When the battery is empty, the motor beeps 10 times. When the motor is charging, the LED lighting is red. When the motor is full, the LED lighting is green.

Control with the BREL HOME app

The Solaris motors can be controlled with your mobile phone in combination with a Home Box. The Home Box Mini is a USB WiFi dongle, Home Box Duo is a WiFi hub RS485 suitable for mono- and bi-directional and the Home Box Ultra is with WiFi and UTP/PoE.

In this App you can create time functions and scenarios. The BREL HOME app can be connected to Siri, Google Home and Alexa.





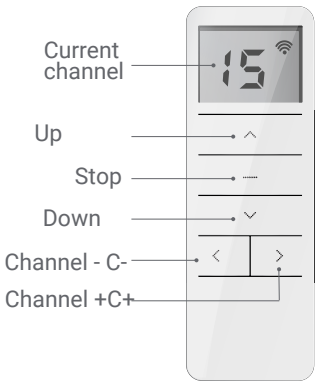
Technical data of the motor

	BLE15	BLE20	BLE25	BLEQ28	BLEQ35-06	BLEQ35-13
Input	Micro usb	USB-C	USB-C	USB-C	USB-C	USB-C
Working voltage	12V	12V	12V	12V	12V	12V
Charging voltage	5V	5V	5V	5V	5V	5V
Power	5W	8W	10W	22W	38W	38W
Amperage	0.6A	1.0A	1.20A	1.60A	3.23A	3.23A
Force (Nm)	0.3	0.5	1.1	2	6	13
Speed (Rpm)	30	28	28	28	24	13
Motor length (mm)	373	485	605	670	652	652
Motor diameter (mm)	15	20	25	28	35	35
Motor head diameter (mm)	30	45	45	45	40	40
Antenna (mm)	170	170	170	170	170	170
Cable (mm)	n.v.t.	n.v.t.	n.v.t.	n.v.t.	170	170

The following specifications apply to all Lio motors:

Frequency	433 MHz
Range	25m indoor to 100m outdoor
Capacity	10 channels or transmitters
IP value	IP20
Working temperature	-10°C to +55°C

Transmitter functions

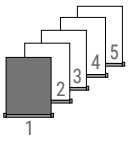




There are two P2 keys, it doesn't matter which one you use

Programming the first remote control/channel

The remote control can transmit 15 channels and therefore control multiple blinds.
First, select a channel for operating the relevant roller blind.
Make sure that you select a free channel (we recommend only 1 product per channel).



This remote has also channel 0. All blinds programmed in channel 1~15 are automatically programmed in this channel 0 and can be operated all at once.

In case you have selected the wrong channel, go to **Resetting factory settings**.

▶ **Select the desired channel.**

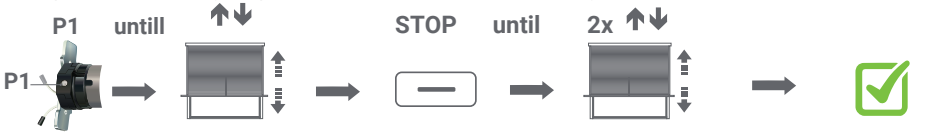
Step 1 Establishing connection

If you do not start programming within 10 seconds, the motor will exit programming mode.

During programming you must press the key briefly. If you need to hold it for a long time, this will be stated

The motor confirms each completed step with an up and down movement. (↕)

If a procedure does not go as planned, wait 20 seconds and then start again.



Hold down the P1 key until the motor moves up/down.

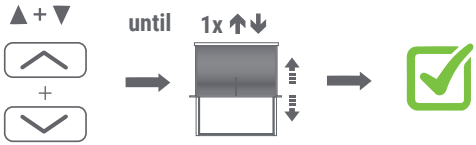
Houd de stop toets ingedrukt totdat de motor 2x op/neer beweegt.

afstandsbediening/ kanaal is toegevoegd

If NO end positions have been set, the motor will move in pulse mode. Then go to step 3.
If end positions have been set, check the end positions. If correct, go to step 5.
Warning: If the end positions are not correct, go to option A

Step 2 Reverse the direction of rotation (only if it is not correct)

Only possible if no end positions have been set



Press the UP and DOWN keys simultaneously until the motor moves up/down.

The direction of rotation of the motor has been adjusted.

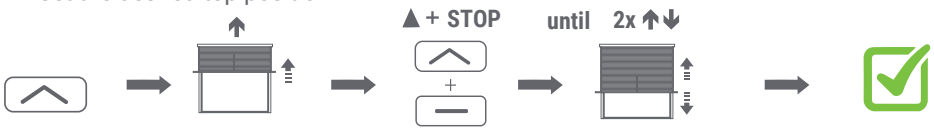
If no response, check whether the transmitter is blocked.

Step 3 Setting the end position

To move the motor one step: briefly press the UP or DOWN key

To move the motor continuously: press the UP or DOWN key for 3 seconds (NOTE! Press STOP in time)

1. Set the desired top position

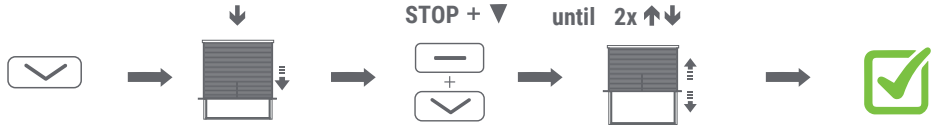


Use the control buttons to move the motor to the desired top position

Press the up and stop keys simultaneously until the motor moves up/down twice

The top position is set

2. Set the desired bottom position



Use the control buttons to move the motor to the desired bottom position

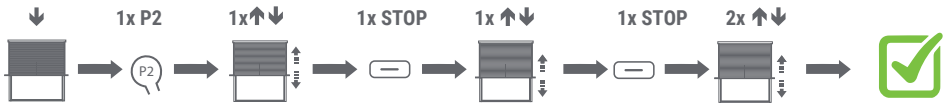
Press the down and stop keys simultaneously until the motor moves up/down twice

The bottom position is set

The motor is now ready for use

If you are not satisfied with the set end positions, go to option A, or to Reset the motor.

Step 4 Setting the favorite position (if desired)



Go to the desired favorite position

Press the P2 key. The motor moves up/down

Press the STOP key. The motor moves up/down

Press the STOP key. The motor moves up/down twice

Press and hold the stop button for 3 seconds to go to the favorite position.

Repeat this procedure to delete the favorite position.

Change settings

Adjusting the top position

If adjustment is not possible, check the lock function or reset the motor



Press and hold stop and up until the motor moves up/down.

Move to the new top position

Press and hold stop and up until the motor moves up/down twice.

The top position has been adjusted

Adjusting the bottom position

If adjustment is not possible, check the lock function or reset the motor



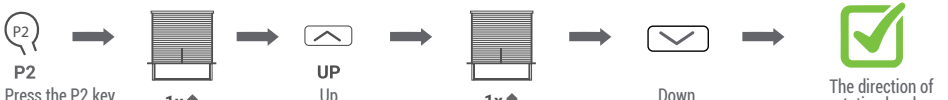
Press and hold stop and down until the motor moves up/down.

Move to the new bottom position

Press and hold stop and down until the motor moves up/down twice.

The bottom position has been adjusted

Change direction of rotation



P2
Press the P2 key once

1x

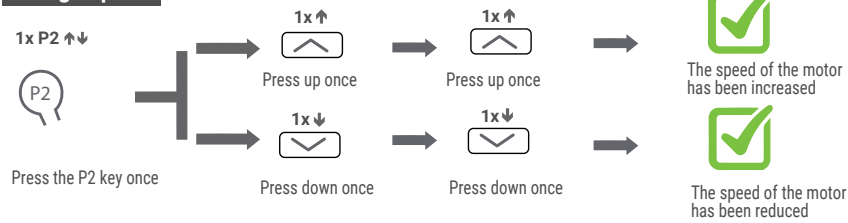
UP
Up
(1 pulse and 1 beep)

1x

Down
(1 pulse and 1 beep)

The direction of rotation has been adjusted

Change speed



1x P2

Press the P2 key once

1x
Press up once

1x
Press up once

The speed of the motor has been increased

1x
Press down once

1x
Press down once

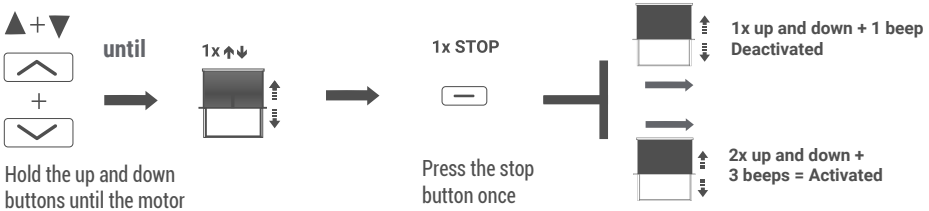
The speed of the motor has been reduced

The motor is set to the highest speed and the slow stop is activated

To deactivate the slow stop, the motor must first be at the lowest speed. Because the motor is at the highest speed, you must first reduce the speed twice to set the motor to the lowest speed. Then reduce the speed once more to deactivate the slow stop. To activate the slow stop again, increase the speed twice until the motor is at the highest speed. Then increase the speed once more to activate the slow stop.

Instellingen wijzigen

Puls mode



Hold the up and down buttons until the motor moves up/down

Press the stop button once

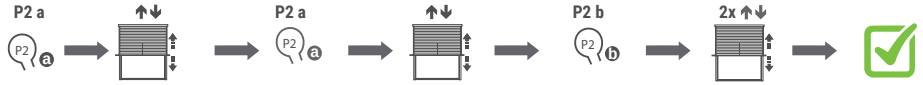
Registering an extra remote control/channel

Only possible if the end positions have been set

a = *Existing remote control/channel*

b = *New remote control/channel*

Via the existing transmitter



Press the P2 of A key. The motor moves up/down

Press the P2 of A key. The motor moves up/down

Press the P2 of A key. The motor moves up/down

Remote control/channel b has been added

Start with the transmitter or channel that the motor is programmed to

To delete a transmitter/channel repeat the procedure

Via P1 key

(If the old transmitter is lost or broken)



Hold down the P1 key until the motor moves up/down.

Press stop B until the motor moves up/down 2 times.

A new remote control/channel has been added

Start with the transmitter or channel that the motor is programmed to

To delete a transmitter/channel repeat the procedure

Functions of the P1 key can be used as a control button in case of emergency



The motor moves up, stops or moves down when you press the P1 key

Press the P1 key briefly once

Turn off the receiver



Hold the P1 key until the motor has moved up/down for the 2nd time.
To activate the receiver again, briefly press P1 once

The receiver is turned off

To reactivate, briefly press P1 once.

Changing the direction of rotation



Hold the P1 key until the motor has moved up-down for the 3rd time.

The direction of rotation is reversed

Reset to factory settings



Hold the P1 key until the motor has moved up/down for the 4th time.

Reset to factory settings

To reprogram the motor go to step 1