



INSTALLATION MANUAL

Solaris motors

This manual is suitable for the following types of motors:

- BLE45-40
- BLE45-50

Read the manual before you start the installation. If the instructions are not followed, this may lead to 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 instructional 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.

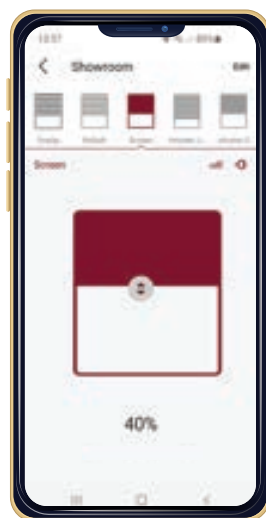
Mount the motor in the tube of the sun blinds.

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.



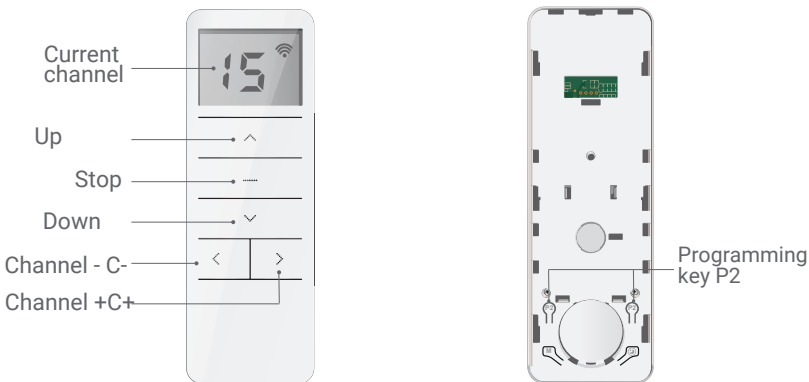
Technical data of the motor

	BLE45-40	BLE45-50
Input	DIN 3.4 female	DIN 3.4 female
Working voltage	12V	12V
Charging voltage	12.6V	12.6V
Power	50W	50W
Amperage	4.10A	4.10A
Force (Nm)	50	50
Speed (rpm)	10	5
Motor length (mm)	660	660
Motor diameter (mm)	45	45
Motor head diameter (mm)	60	60
Antenna (mm)	170	170
Cable (mm)	170	170

The following specifications apply to all Solaris motors:

Frequency	433 MHz
Range	25m indoor to 100m outdoor
Capacity	10 channels or transmitters
IP value	IP44
Operating temperature	-10°C to +55°C

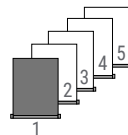
Transmission functions



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

Programming the first remote control/channel

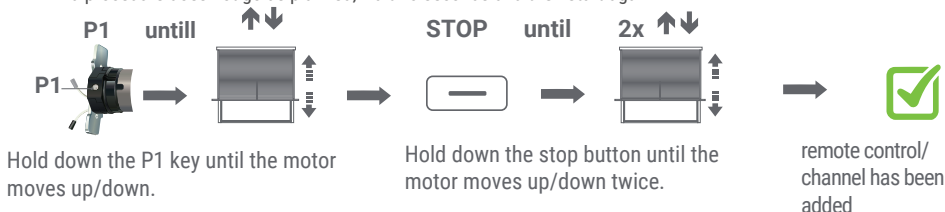
-  The remote control can transmit 15 channels and therefore control multiple blinds. First, select a channel for operating the relevant roller blind. Make sure that you select a free channel (we recommend only 1 product per channel).
-  This remote has also channel 0. All blinds programmed in channel 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

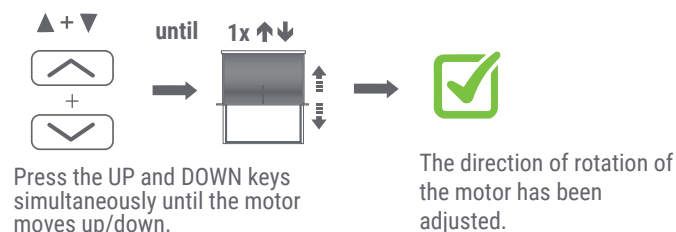
-  If you do not start programming within 10 seconds, the motor will exit programming mode.
-  During programming you must press the key briefly. If you need to hold it for a long time, this will be stated
-  The motor confirms each completed step with an up and down movement. (‡)
-  If a procedure does not go as planned, wait 20 seconds and then start again.



-  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)

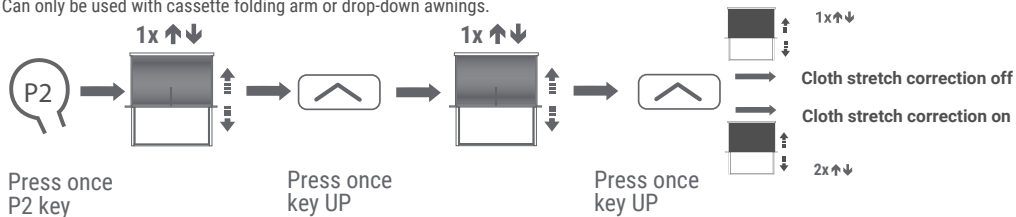
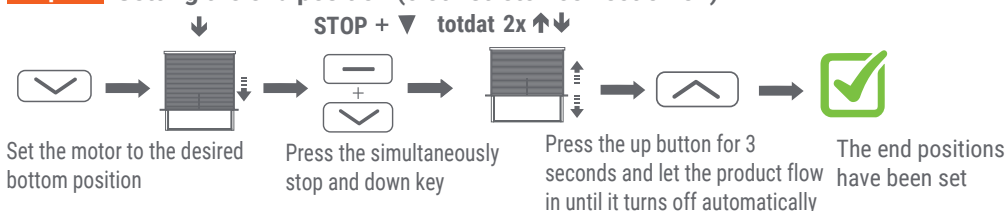
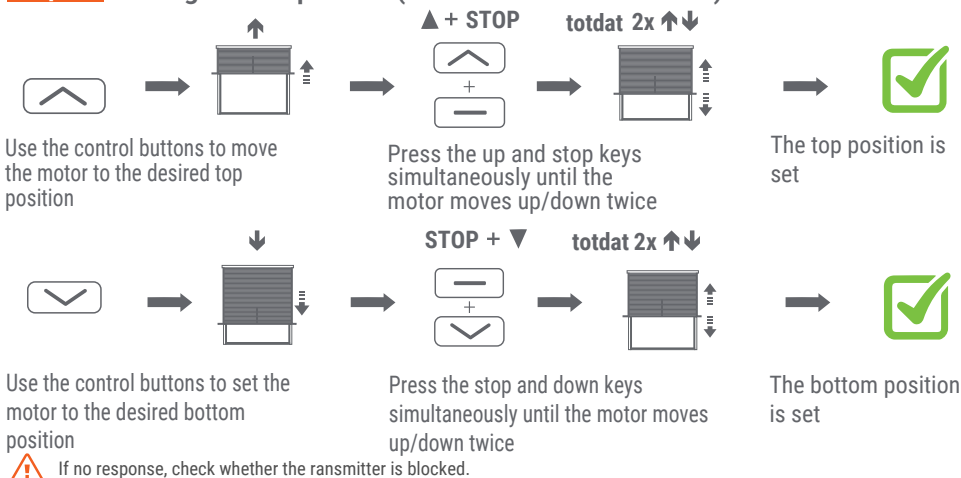
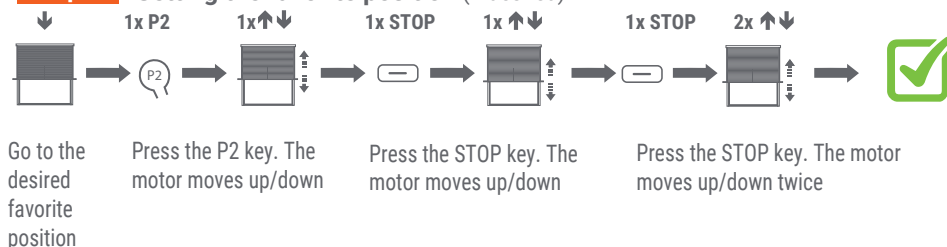
Only possible if no end positions have been set



-  If no response, check whether the transmitter is blocked.

Step 3 Turn fabric stretch correction on/off Default is on

Your awning cloth becomes longer during use. There is one to ensure that your awning closes better cloth stretch correction function added to the motor. This ensures that when your cloth becomes longer, the motor compensates for this. Can only be used with cassette folding arm or drop-down awnings.

**Step 4a Setting the end position (cloth stretch correction on)****Step 4b Setting the end position (cloth stretch correction off)****Step 5 Setting the favorite position (if desired)**

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

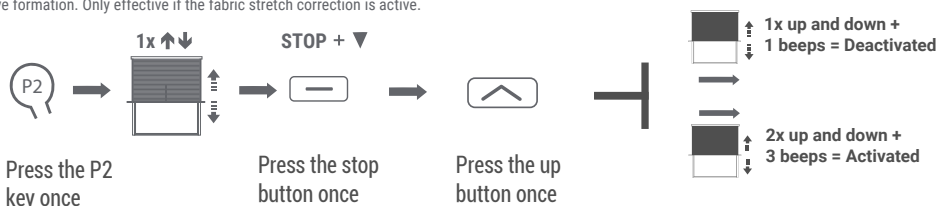
Repeat this procedure to delete the favorite position.

Extra functions

Fabric tension

Recoil function

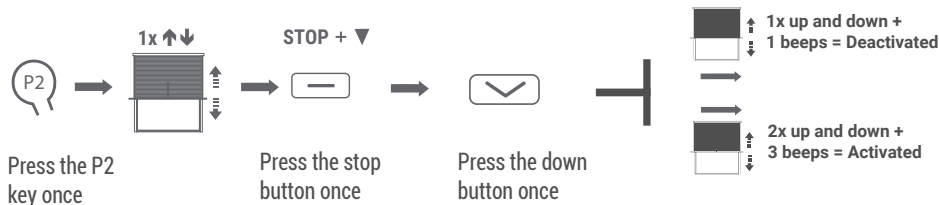
The fabric stretch correction ensures that your awning is pulled closed with force. However, this can lead to wave formation on the front left and right of the cloth. Because the cloth is then under high tension, a function has been added that removes the tension from the cloth a little bit. This results in less wave formation. Only effective if the fabric stretch correction is active.



The recoil function ensures that the tension of the cloth is released at the top position. Default is OFF.

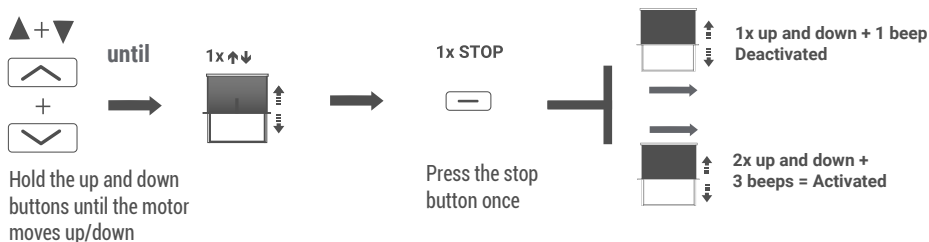
Retraction function

If the awning goes out completely, the cloth may not be completely taut. This function ensures that your cloth is even tighter when the awning is off.

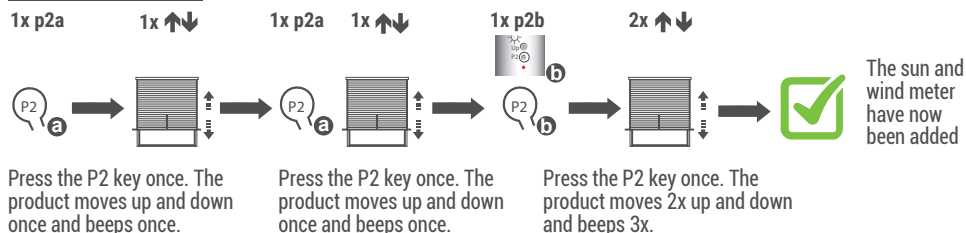


The retraction function ensures that the tension is on the canvas at the bottom position. Default is OFF.

Puls mode



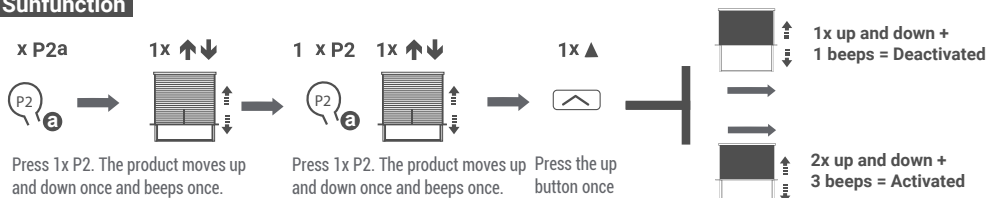
Sun- and windmeter Add/delete



Repeating the top step removes the sun and windmeter.

Extra functions

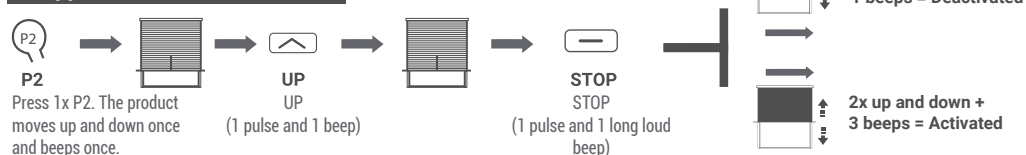
Sunfunction



By repeating the above, you can turn the sun function on/off

TIP: Use the THW2415 handheld transmitter with sun function.

Disappeared sun and wind meter Default is on



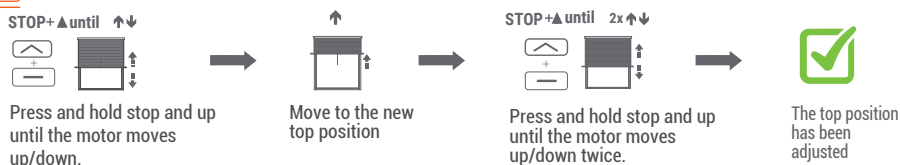
*The factory default mode is ON; After the wind detection function is turned off, it can work normally for 30 minutes without receiving the response signal. If a wind sensor is connected to the motor, this function is activated. If the motor does not receive a signal from the wind sensor every 30 minutes, the awning will go up. If the wind sensor is defective, the awning will automatically retract after 30 minutes.
NB! When replacing, the sun and wind meter must first be removed from the motors memory. If the sun and wind meter is defective, the theft function must be turned off.

* The motor goes into pulse mode when the motor has no contact with the sun and wind meter or if the sun and wind meter are defective. You can turn off the pulse mode by following the steps on page 8.

Change settings

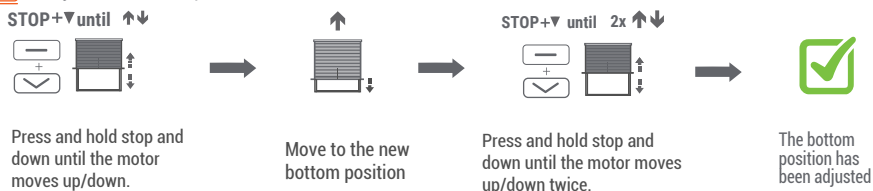
Adjusting the top position Only possible if the end positions have been set

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

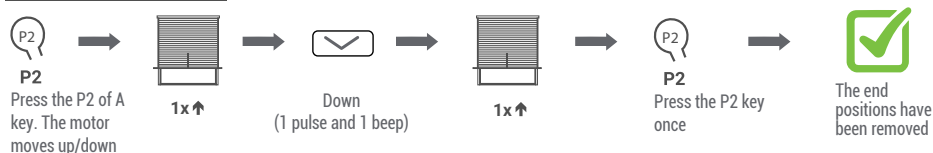


Adjusting the bottom position Only possible if the end positions have been set

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



Delete end positions



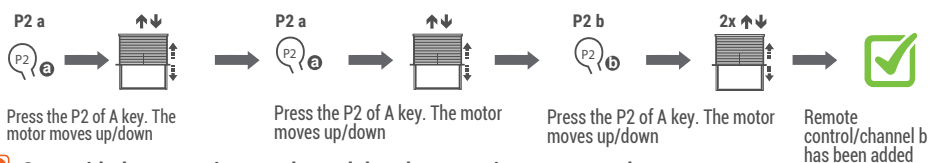
Registering an extra remote control/channel

Only possible if the end positions have been set

a = Existing remote control/channel

b = New remote control/channel

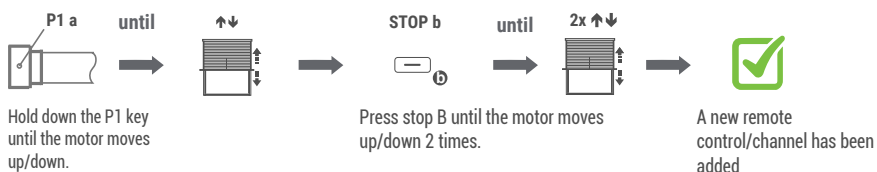
Via the existing transmitter



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)



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