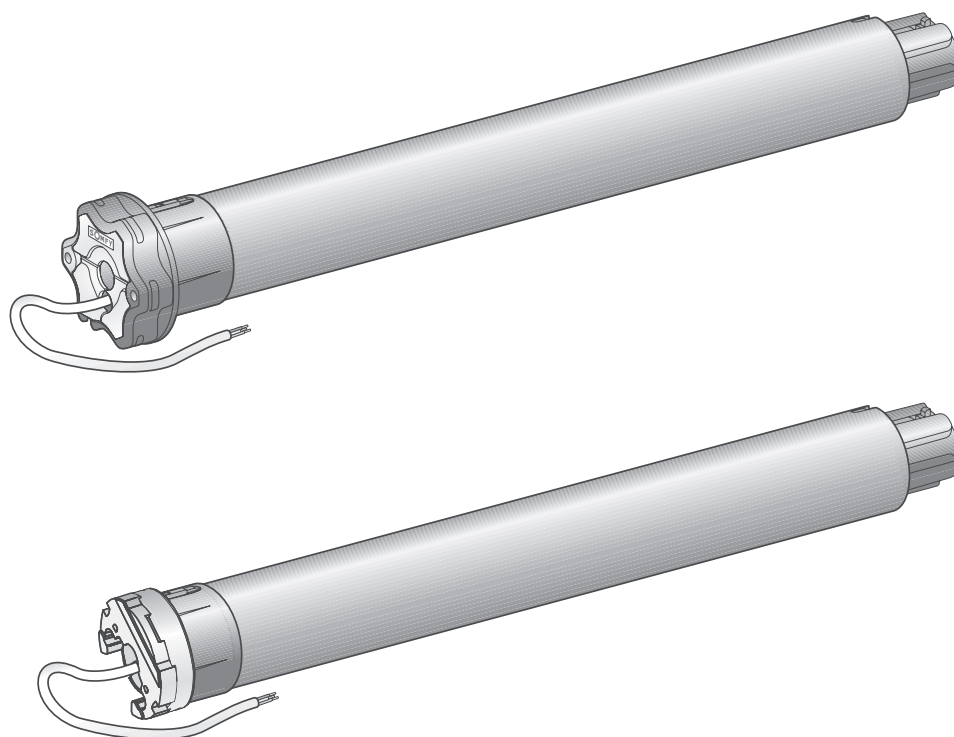


Sunea screen io



- EN** Installation guide
- ES** Guía de instalación
- PT** Guia de instalação
- EL** Οδηγός εγκατάστασης

Ref. 5065259C



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1. INTRODUCTION

The Sunea screen io motor is designed to drive all types of lateral arm-mounted awnings and vertical awnings (with or without cassette).

What is io-homecontrol®?

The Sunea screen io uses io-homecontrol®, the new universal and secure wireless communication protocol, shared by the major manufacturers in the world of home automation. io-homecontrol® enables all comfort and security equipment to intercommunicate and be actuated via one single control point.

The flexibility and perfect compatibility of the io-homecontrol® system mean that it keeps in step with your changing requirements. You can start by automating roller shutters and the front door, then equip the outside awnings, the gate and garage door or garden lighting with the io-homecontrol® system.

These scalable items of equipment are still compatible with the existing system, thanks to io-homecontrol® technology, which ensures their interoperability.

For further information please visit the website **www.io-homecontrol.com**



io-homecontrol® provides advanced and secure radio technology that is easy to install. io-homecontrol® labelled products communicate with each other, improving comfort, security and energy savings.

www.io-homecontrol.com

2. SAFETY

2.1. Safety and responsibility

Before installing and using this product, please read these instructions carefully.

This Somfy product must be installed by a professional motorisation and home automation installer, for whom these instructions are intended.

Moreover, the installer must comply with current standards and legislation in the country in which the product is being installed, and inform his customers of the operating and maintenance conditions for the product.

Any usage outside of applications defined by Somfy constitutes non-compliance, and is therefore not covered by the guarantee. In this event, as for all usage not consistent with the instructions given herein, Somfy accepts no responsibility for harm or damage.

Never begin installing without first checking the compatibility of this product with the associated equipment and accessories.

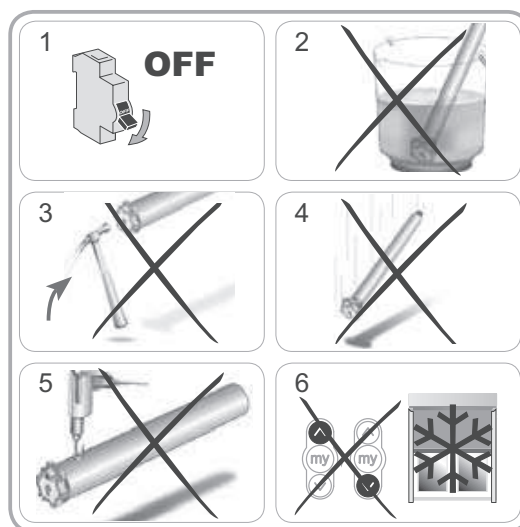
2.2. Specific safety advice

In addition to the safety instructions described in this guide, be sure to also observe the instructions set out in the attached document «Safety instructions to follow and keep».

- 1) Switch off the mains supply for the awning before performing any service operation in the vicinity.

To avoid damaging the motor:

- 2) Never immerse it in liquid!
- 3) Avoid impacts!
- 4) Do not drop it!
- 5) Never drill holes in it!
- 6) Avoid moving the awning if ice has formed on it.

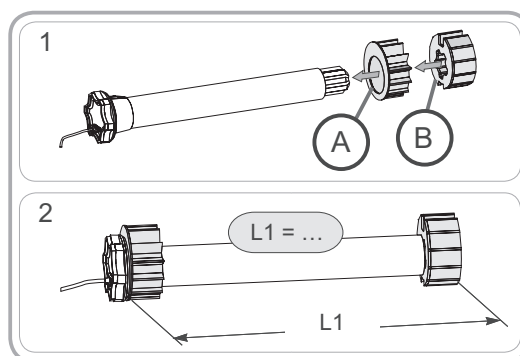


3. INSTALLATION

The Sunea screen io must be installed in a location sheltered from inclement weather.

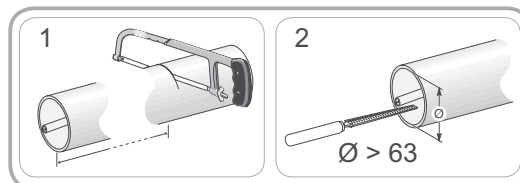
3.1. Motor preparation

- 1) Fit the crown (A) and the drive wheel (B) to the motor.
- 2) Measure the length (L1) between interior edge of the motor head and the rim of the drive wheel.




3.2. Tube preparation

- 1) Cut the roller tube to the required length.
- 2) Deburr the roller tube and remove the swarf.



3.3. Motor/tube assembly

- 1) Slide the motor into the roller tube.
- 2) For safety reasons, fix the roller tube to the drive wheel with 4 x Ø 5 mm self-tapping screws or 4 x Ø 4.8 mm steel pop rivets located at least 5 mm from the outer rim of the drive wheel (L1 - 5) and at most 15 mm from the outer rim of the drive wheel (L1 - 15).

 The screws or pop rivets must only be attached to the drive wheel and not to the motor.

3.4. Installing the tube-motor assembly

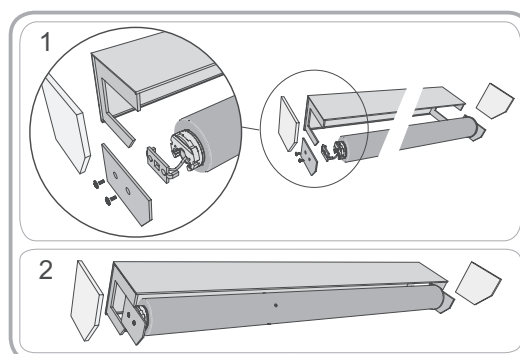
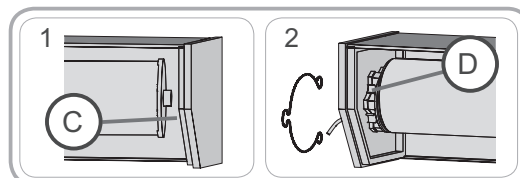
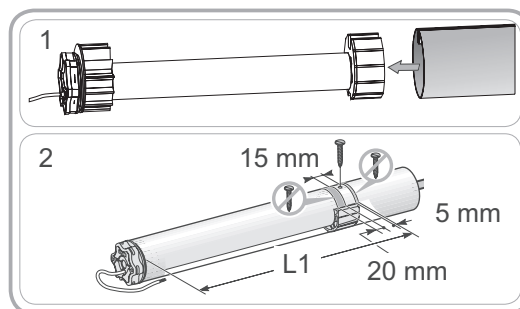
Insert the end-piece into the tube.

3.4.1. Star head motor:

- 1) Fit the tube/motor assembly to the end bracket (C).
- 2) Fit the tube/motor assembly to the motor bracket (D).

3.4.2. Round head motor:


- 1) Mount the support on the motor head, and then the removable flange.
- 2) Slide the tube-motor-removable flanges assembly into the head rail.



EN

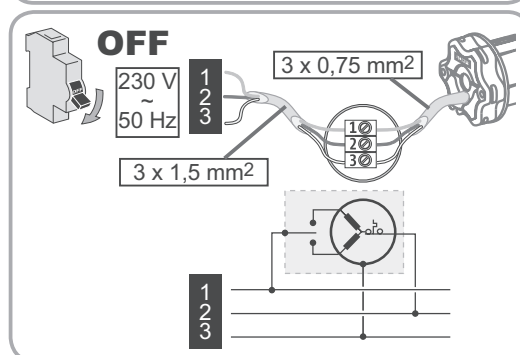
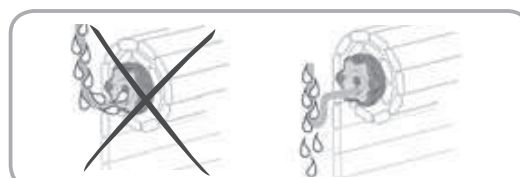
4. WIRING

Always make a loop in the power supply cable to prevent water entering the motor!

 Comply with current standards and legislation when installing.

- Cut off the mains power supply.
- Connect the motor according to the information in the table below:


	230 V ~ 50 Hz	Motor cable
1	Brown	Live (P)
2	Blue	Neutral (N)
3	Yellow/Green	Earth (⌚)



5. COMMISSIONING

The guide only describes commissioning using a Situo io type Somfy io local control point. For commissioning using any other io control point, refer to the corresponding guide.

5.1. Identifying setting steps already completed

 Only one motor should be powered at a time.

Switch on the power and follow procedure «a» or «b», according to the awning's reaction:



a The awning makes a brief movement

The end limits are set and no io control point has been programmed. Go to the section «Programming the first Somfy io local control point».

b The awning does not move

Press the Up or Down button, and follow procedure «b1» or «b2» according to the awning's reaction.

b1 The awning still does not move

The end limits are not set and no io control point has been programmed.

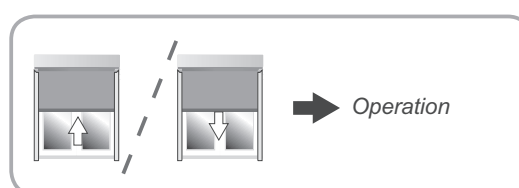
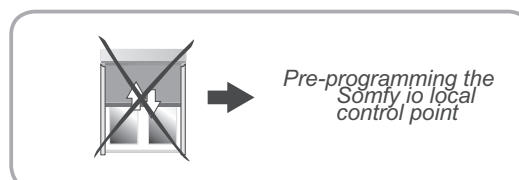
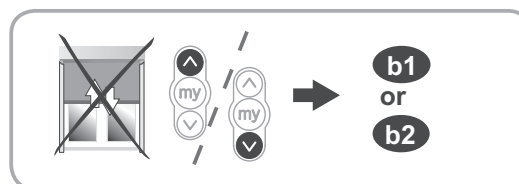
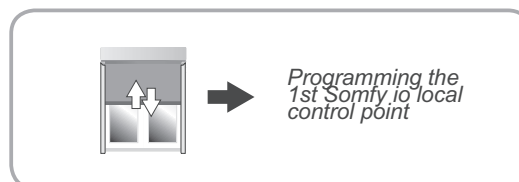
Go to the section «Pre-programming the Somfy io local control point».

or

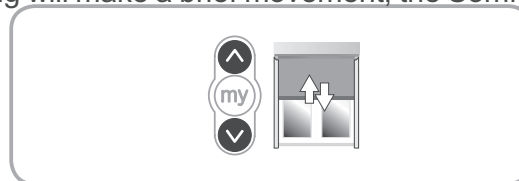
b2 The awning is fully raised or lowered

The end limits are set and the io control point has been programmed.

Go to the section «Operation».

**5.2. Pre-programming the Somfy io local control point**

- Press the Up and Down buttons simultaneously: the awning will make a brief movement; the Somfy io local control point has been pre-programmed into the motor.

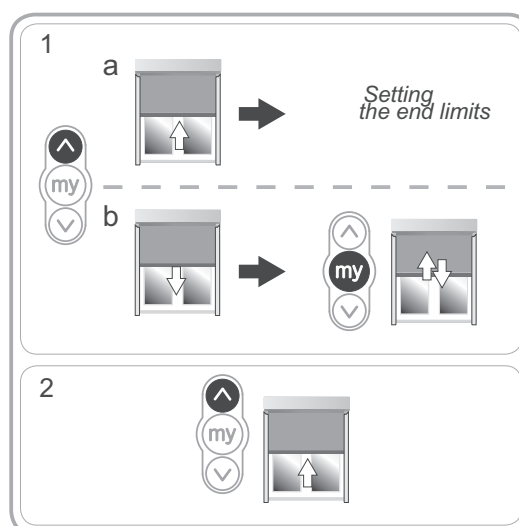
**5.3. Checking the motor's direction of rotation**

- 1) Press the Up button on the Somfy io local control point:

a) If the awning is raised, the direction of rotation is correct: go to the section «Setting the end limits».

b) if the awning is lowered, the direction of rotation is incorrect: press the «my» button until the awning moves; the direction of rotation has been modified.

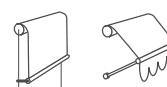
- 2) Press the Up button to check the direction of rotation.

**5.4. Setting the end limits**

The end limit setting depends on the type of awning.


5.4.1. Setting for vertical awnings without upper stop, and lateral arm-mounted awnings

For vertical awnings without upper stop, or lateral arm-mounted awnings without head rail, the upper and lower end limits must be set.



Setting the upper end limit

1) Position the awning at the upper end limit.

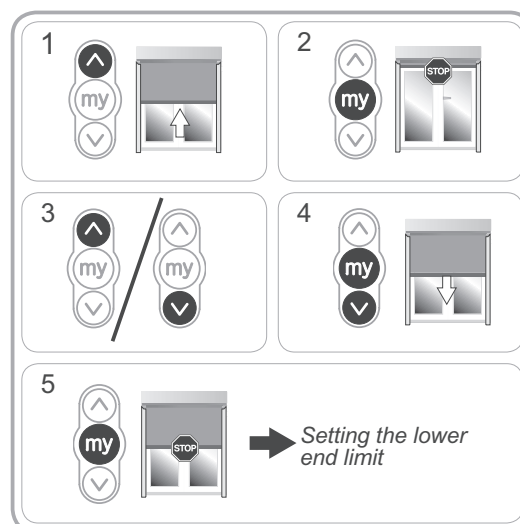
 Press and hold the Up button for > 2 s to raise the awning in one continuous movement.

2) Stop the awning at the desired point.

3) If necessary, adjust the position of the awning using the Up or Down buttons.


4) Press the «my» and Down buttons simultaneously: the awning will be lowered in one continuous movement, even after the «my» and Down buttons have been released.

5) At mid-height, briefly press the «my» button to stop the awning, and go to the section «Setting the lower end limit».



Setting the lower end limit

1) Put the awning in the lower end limit position.

 Press and hold the Down button for > 2 seconds to lower the awning in one continuous movement.

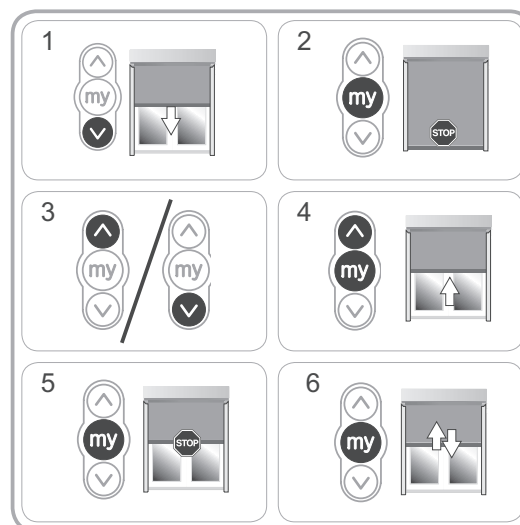
2) Stop the awning at the desired point.

3) If necessary, adjust the position of the awning using the Up or Down buttons.

4) Press the «my» and Up buttons simultaneously: the awning will be raised in one continuous movement, even after the «my» and Up buttons have been released.

5) At mid-height, briefly press the «my» button to stop the awning.


6) Press the «my» button again until the awning moves: the end limits have been programmed. Go to the section «Programming the first Somfy io local control point».




5.4.2. Setting for vertical awnings with upper stop only

For awnings with upper stop (load bar stopped under the head rail), the upper end limit is automatically adjusted, while the lower end limit must be set.

Setting the lower end limit

 Do not press the «my» and Down buttons simultaneously to reach the lower end limit

1) Put the awning in the lower end limit position.

 Press and hold the Down button for > 2 seconds to lower the awning in one continuous movement.

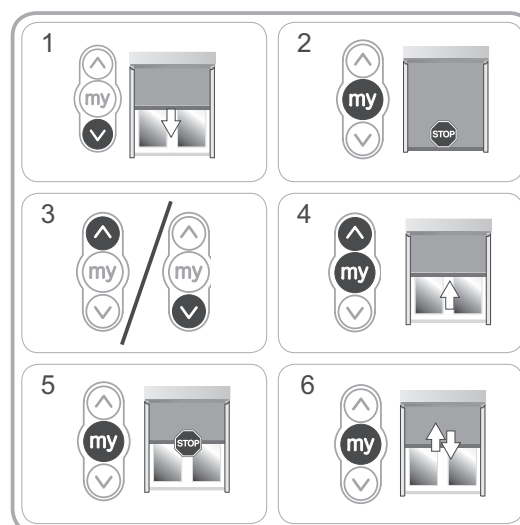
2) Stop the awning at the desired point.

3) If necessary, adjust the position of the awning using the Up and Down buttons.

4) Press the «my» and Up buttons simultaneously: the awning will be raised in one continuous movement, even after the «my» and Up buttons have been released.

5) At mid-height, briefly press the «my» button to stop the awning.

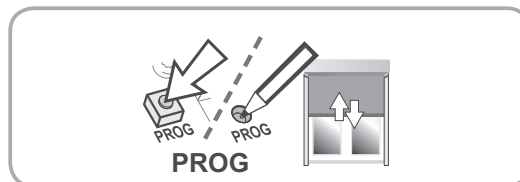
6) Press the «my» button again until the awning moves: the end limits have been programmed, go to the section «Programming the first Somfy io local control point».



5.5. Programming the first Somfy io local control point

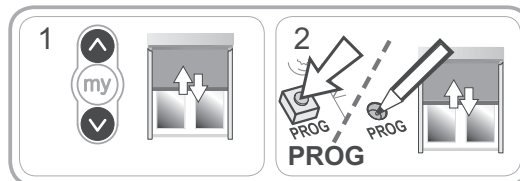
5.5.1. Using a pre-programmed Somfy io local control point

- Briefly press the PROG button on this control point: the awning will make a brief movement; the control point has been programmed.



5.5.2. After a single power cut

- 1) Press the Up and Down buttons simultaneously on the new control point until the awning moves.
- 2) Briefly press the PROG button on this control point: the awning will make a brief movement; the control point has been programmed.



5.6. Checking the settings

- Check the settings of the upper and lower end limits using the Somfy io local control point.

6. OPERATION

6.1. Standard operation

6.1.1. Favourite position (my)

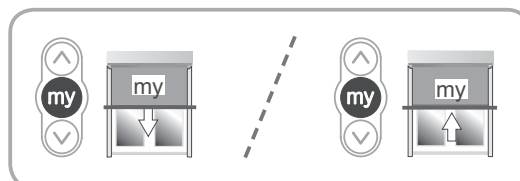
Definition

Besides the upper and lower positions, an intermediate position known as the «favourite position (my)» may be programmed in the motor.

i To program, modify or delete the favourite position (my), see the section «Additional settings».

To use the favourite position (my):

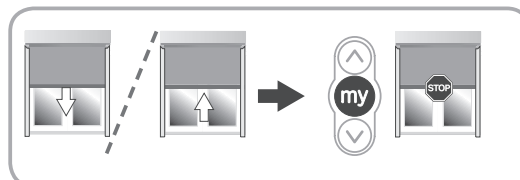
- Briefly press the «my» button: the awning will start to move, and stop in the favourite position (my).



6.1.2. STOP function

The awning is moving.

- Briefly press the «my» button: the awning will stop automatically.



6.1.3. Up / Down buttons

Briefly press the Up or Down button to raise or lower the awning fully.

6.2. Operating with a Somfy io sensor

6.2.1. Operating with a Somfy io sun sensor (such as Sunis WireFree™ io)

Refer to the corresponding guide.

6.2.2. Operating with a Somfy io wind sensor (such as Eolis WireFree™ io)

Refer to the Somfy io wind sensor guide for details of its operation.

Reaction of the awning to the wind rising

i When the wind rises, the awning will start to move up to the upper end limit. It is impossible to prevent the awning from closing, or to lower it while the wind is still blowing.



Reaction of the awning to the wind dropping

i When the wind has dropped, a manual down order may be issued via the io control point after 30 seconds. However, all automated systems will remain locked for 11 mins.



6.2.3. Feedback

After each order, the Sunea io sends a message. This response is processed by the io two-way control points.

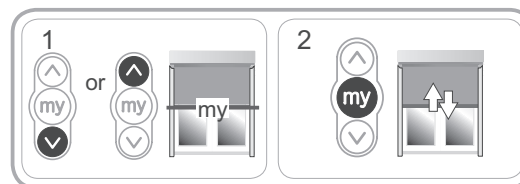
7. ADDITIONAL SETTINGS

7.1. Favourite position (my)

7.1.1. Programming or modifying the favourite position (my)

The procedure to follow for programming or modifying the favourite position (my) is identical.

- 1) Put the awning in the desired favourite position (my).
- 2) Press the «my» button until the awning moves: the desired favourite position (my) has been programmed.



7.1.2. Deleting the favourite position (my)

- 1) Press the «my» button: the awning will start to move, and stop in the favourite position (my).
- 2) Press the «my» button again until the awning moves: the favourite position (my) has been deleted.

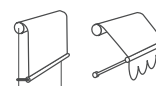
7.2. Adding/Deleting Somfy io control points and io sensors

Refer to the corresponding guide.

7.3. Modifying end limits

Modification of end limits depends on the type of awning.

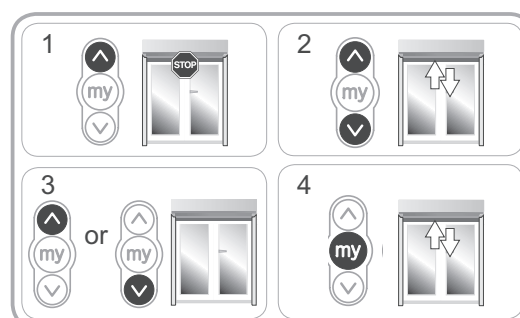
7.3.1. Modification for vertical awnings without upper stop and lateral arm-mounted awnings



For vertical awnings without upper stop or lateral arm-mounted awnings without head rail, both end limits may be modified.

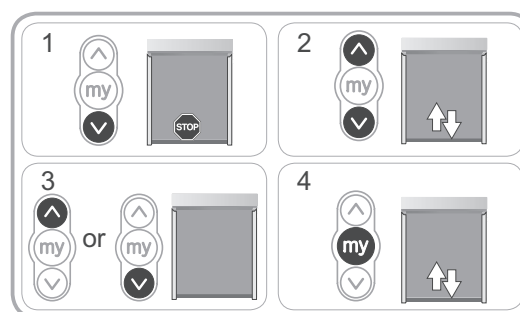
Readjusting the upper end limit

- 1) Position the awning at the upper end limit.
- 2) Press the Up and Down buttons simultaneously until the awning moves: the motor is in setting mode.
- 3) Adjust the awning's top position using the Up or Down buttons.
- 4) Press the «my» button until the awning moves: the new upper end limit has been programmed.



Readjusting the lower end limit

- 1) Position the awning at the lower end limit.
- 2) Press the Up and Down buttons simultaneously until the awning moves: the motor is in setting mode.
- 3) Adjust the awning's bottom position using the Up or Down buttons.
- 4) Press the «my» button until the awning moves: the new lower end limit has been programmed.



7.3.2. Modification for vertical awnings with upper stop only

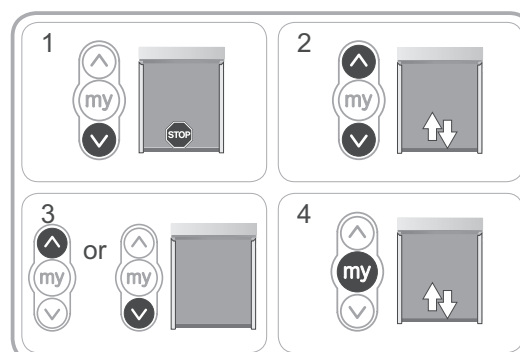
For awnings with upper stop (load bar stopped under the head rail), the upper end limit is adjusted



automatically, while the lower end limit can be modified.

Readjusting the lower end limit

- 1) Position the awning at the lower end limit.
- 2) Press the Up and Down buttons simultaneously until the awning moves: the motor is in setting mode.
- 3) Adjust the awning's bottom position using the Up or Down buttons.
- 4) Press the «my» button until the awning moves: the new lower end limit has been programmed.



7.4. Advanced functions

! Please contact the manufacturer of the awning before using these functions, to confirm the compatibility of your installation.

7.4.1. «Back release» function, for vertical awnings with upper stop only

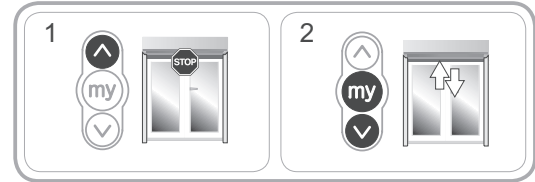
This function releases the fabric tension after closing an awning with upper stop (load bar stopped under the head rail).



i The procedure to follow to activate or deactivate «Back release» is identical.

For safety reasons, this function can only be activated or deactivated via the io control point in 3 scenarios:

- After the 2-second settings validation stop and before programming the first Somfy io control point.
- After programming the first Somfy io control point and for the next 4 cycles.
- After a single power cut, and for the next 4 cycles.



To activate this function:

- 1) Put the awning in the upper end limit position.
- 2) Press the «my» and Down buttons simultaneously until the awning moves.
 - If the «Back release» function was inactive, it is activated.
 - If the «Back release» function was active, it is deactivated.

7.4.2. «Closing force» function for vertical awnings with upper stop only

This function can be used to increase or decrease the load bar's force under the head rail, with 3 thresholds (high-medium-low).



The motor's default factory setting is medium level.

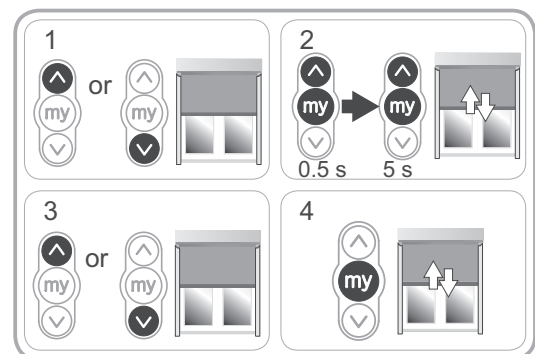
For safety reasons, this function can only be accessed via the Somfy io control point in 3 scenarios:

- After the 2-second settings validation stop and before programming the first Somfy io control point.
- After programming the first Somfy io control point and for the next 4 cycles.
- After a single power cut, and for the next 4 cycles.

To activate this function:

- 1) Put the awning in the middle position.
- 2) Briefly press the «my» and Up buttons simultaneously, then immediately afterwards press and hold the «my» and Up buttons until the awning moves.

! The motor is in programming mode for just 10 s.



- 3) Adjust the closing force using the Up or Down buttons.

- To increase the closing force, press the Up button until the awning moves slowly: the cassette awning closing force is increased to the upper threshold.
- To decrease the closing force, press the Down button until the awning moves slowly: the cassette awning closing force is decreased to the lower threshold.

- 4) Press the «my» button until the awning moves: the new closing force has been programmed.

8. TIPS AND RECOMMENDATIONS

8.1. Questions on the Sunea screen io?

Observations	Possible causes	Solutions
The awning does not operate.	The wiring is incorrect.	Check the wiring and modify it if necessary.
	The motor is hot.	Wait until the motor cools down.
	An incorrect cable has been used.	Check the cable and ensure it has 3 leads
	The io control point battery is low.	Check whether the battery is weak and replace it if necessary.
	The control point is not compatible.	Check for compatibility and replace the control point if necessary.
	The io control point used has not been programmed into the motor.	Use a programmed control point or program this control point.
The awning stops too soon.	The crown is incorrectly positioned.	Fit the crown correctly.
	The end limits have been incorrectly set.	Readjust the end limits.

8.2. Replacing a lost or broken Somfy io control point

Refer to the corresponding guide.

8.3. Restoring the original configuration

⚠ This reset deletes all control points, all the sensors and all the end limit settings, and resets the motor's direction of rotation and favourite position (my). However, the advanced functions («Back release», «Closing force») are maintained.

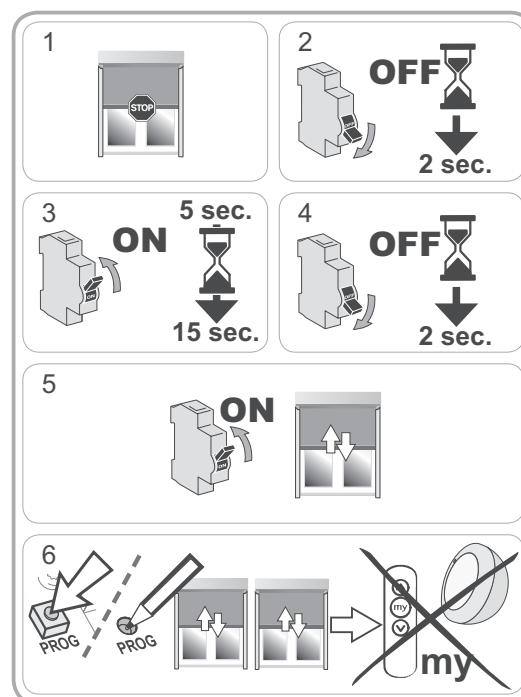
⚠ Only switch off the power for the motor to be reset.

- 1) Put the awning in the middle position (if possible).
- 2) Cut the power supply for 2 seconds.
- 3) Switch the power supply back on for 5 to 15 seconds.
- 4) Cut the power supply for 2 seconds.
- 5) Switch the power supply back on: the awning moves for several seconds.

i If the awning is at the upper or lower end limit, it will make a brief movement.

- 6) Hold down the PROG button: the awning will make a first movement followed by a second a few instants later. The motor is configured with the factory settings.

- Repeat the procedures from the *Commissioning* section



9. TECHNICAL DATA

Radio frequency	868-870 MHz io-homecontrol®, two-way Tri-band
Power supply	230 V ~ 50 Hz
Operating temperature	- 20°C to + 70°C
Index protection rating	IP 44
Maximum number of associated control points and sensors	9
Safety level	Class I