



Oximo 40 Solar io

- EN** Instructions
- IT** Manuale
- ES** Manual
- PL** Instrukcja
- CS** Návod

TRANSLATED INSTRUCTIONS

These instructions apply to all Oximo 40 Solar io drives, the different versions of which are available in the current catalogue.

CONTENTS

1. Prior information	2	3. Operation and maintenance	10
1.1. Field of application	2	3.1. Up and Down buttons	10
1.2. Liability	2	3.2. STOP function	10
2. Installation	2	3.3. Favourite (my) position	10
2.1. Assembly	2	3.4. Additional settings	10
2.2. Wiring	4	3.5. Tips and recommendations for use	10
2.3. Commissioning	5	4. Technical data	11
2.4. Tips and advice for installation	8		

GENERAL INFORMATION

Safety instructions


Danger

Indicates a danger which may result in immediate death or serious injury.


Warning

Indicates a danger which may result in death or serious injury.


Precaution

Indicates a danger which may result in minor or moderate injury.


Attention

Indicates a danger which may result in damage to or destruction of the product.

1. PRIOR INFORMATION

1.1. FIELD OF APPLICATION

OXIMO40 drives are designed to drive all types of roller shutter (with or without a rigid link, with or without stop, etc.).

The professional drive and home automation installer must ensure that, once installed, the installation of the motorised product complies with the standards in force in the country in which it is commissioned, in particular standard EN 13659 on roller shutters.

1.2. LIABILITY

Please read **these instructions carefully** before installing and using the drive. In addition to following the instructions given in this guide, the instructions detailed in the attached **Safety instructions** document must also be observed.

The drive must be installed by a drive and home automation professional, in accordance with Somfy's instructions and the applicable regulations in the country of installation.

Any use of the drive outside the field of application described above is prohibited. Such use, and any failure to comply with the instructions given in this guide and in the attached **Safety instructions**, document, absolves Somfy of any liability and invalidates the warranty.

The installer must inform its customers of the operating and maintenance conditions for the drive and must provide them with the instructions for operation and maintenance as well as the attached **Safety instructions** document after installing the drive. Any After-Sales Service operation on the drive requires intervention by a drive and home automation professional.

If in doubt when installing the drive, or to obtain additional information, contact a Somfy adviser or visit the website www.somfy.com.

2. INSTALLATION



Warning

- These instructions are **mandatory** for the drive and home automation professional installing the drive.
- Comply with current standards and legislation in the country of installation.

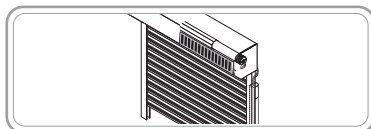


Attention

- Never drop, knock or puncture the drive or immerse it in liquid.
- Install an individual control point for each drive.

① Installation recommendations:

The three elements comprising the kit must be installed on the same side of the roller shutter (Oximo 40 Solar io motor, 3.2 W SOLAR PANEL and either an Oximo WireFree Battery /12V NAKED BATTERY or an Oximo WireFree Battery Stick).



2.1. ASSEMBLY

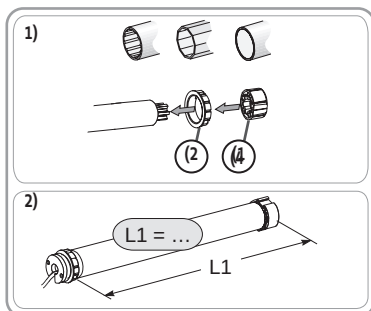
2.1.1. Preparing the drive installation

- ① Check that the inner diameter of the motorized product's tube is greater than or equal to 37 mm.

1) Fit the accessories required to integrate the drive into the roller tube:

- the crown (a) and the wheel (b) on the drive.

2) Measure the length (L1) between the inner edge of the drive head and the rim of the drive wheel.



2.1.2. Preparing the tube

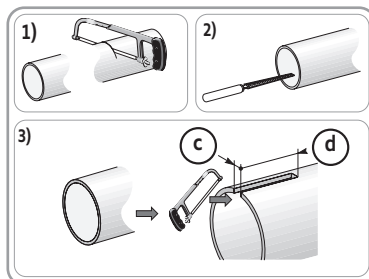
① Install the drive in a roller tube with a minimum thickness of 0.5 mm and a smooth inner surface: with no welding, crimping, folding, etc. inside the tube.

1) Cut the roller tube to the required length, depending on the motorised product.

2) Deburr the roller tube and remove the swarf.

3) For roller tubes which are smooth inside, cut a notch with the following measurements:

	c	d
Ø 40 x 1	6 mm	8.5 mm
Ø 40 x 1.5	7 mm	8.5 mm



2.1.3. Drive-tube assembly

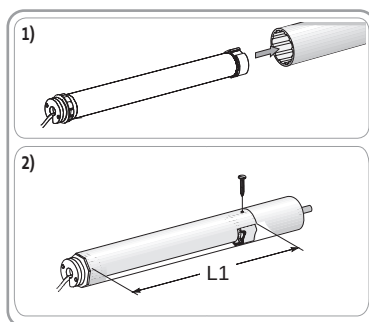
1) Slide the drive into the roller tube.

For winding tubes with a smooth interior, position the cut notch on the crown.

2) The drive wheel must be locked in place to prevent any movement in the roller tube:

This can be achieved by fastening the winding tube to the drive wheel using 4 self-tapping screws, Ø 5 mm, or 4 steel pop rivets, Ø 4.8 mm, placed between 5 mm and 15 mm from the outer edge of the drive wheel, regardless of the roller tube.

Attention
 The screws or pop rivets must only be fastened to the drive wheel and not to the drive.

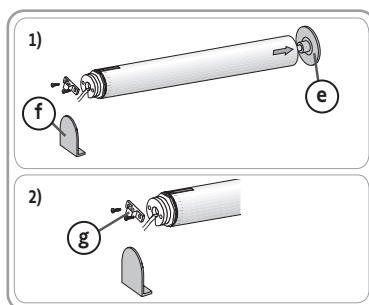


2.1.4. Mounting the tube-drive assembly

1) Install and fix the drive-tube assembly onto the end bracket (e) and onto the drive bracket (f).

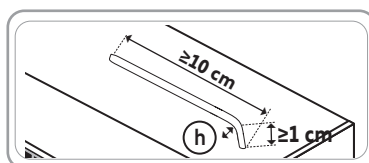
Attention
 Ensure that the drive-tube assembly is secured to the end bracket. This operation prevents the drive-tube assembly from coming out of the end bracket mounting.

2) Depending on the type of bracket, screw the adapter (g) onto the motor head.



2.1.5. Installation of the antenna

Attention
 • Do not wind or cut the antenna wire. Observe a minimum bending radius (h) of 9 mm.
 • The end of the drive antenna wire must protrude at least 10 cm from the roller shutter housing and be 1 cm from all metal surfaces.



2.2. WIRING



Precaution

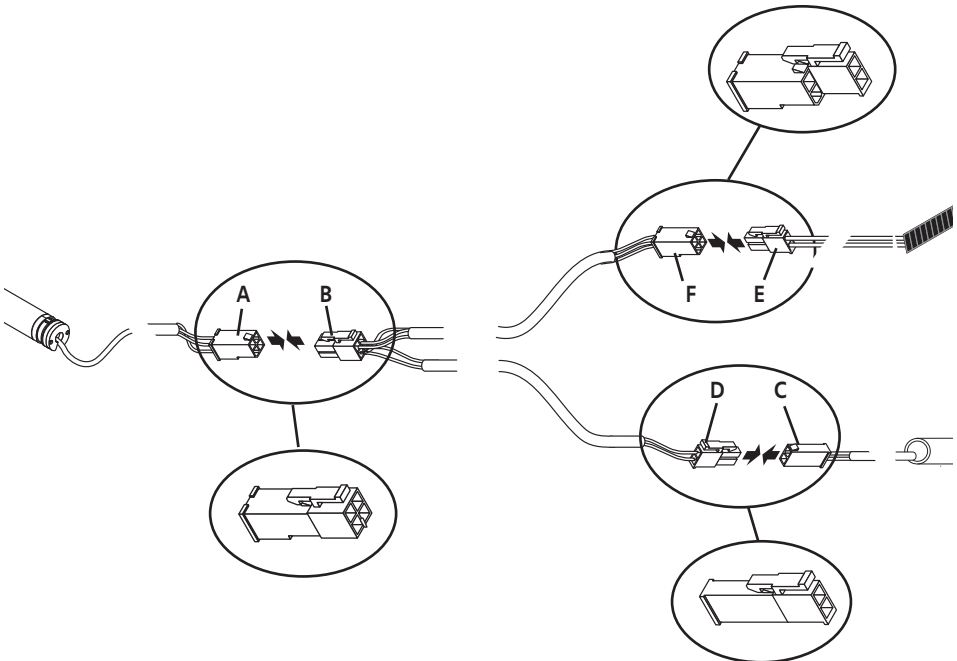
- Standard NF C 15-100 for electrical installations must be adhered to.
- To ensure electrical safety, this class III drive must be recharged by a "SELV" voltage source (Safety Extra Low Voltage).

Attention



- Cables which pass through a metal wall must be protected and isolated using a sheath or sleeve.
- Attach cables to prevent any contact with moving parts.
- If the drive is used outdoors and if the power supply cable is of type H05-VVF, route the cable in a UV-resistant duct, e.g. trunking.
- The drive cable cannot be removed. If it is damaged, return the drive to the After-Sales department.
- Leave the drive power supply cable accessible: it must be easy to replace.
- To guarantee good radio reception, do not cut the external antenna.
- The cables and connectors must be protected from the roller shutter movement.
- Somfy recommends placing the connectors behind the end piece and securing the cables inside the roller shutter housing.

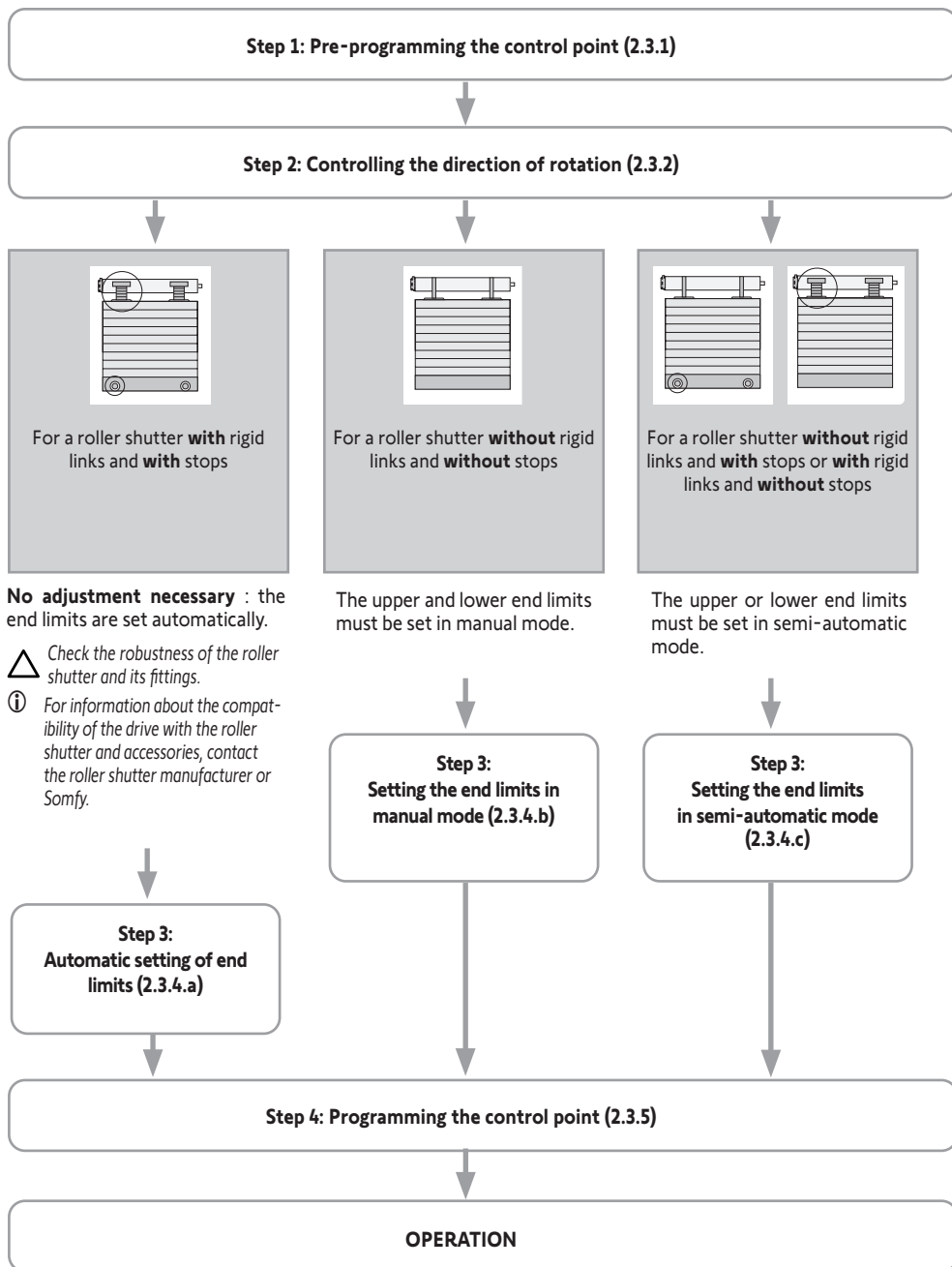
- 1) Wire the 4-pin drive connector (A) to the 4-pin Y cable connector (B).
- 2) Wire the 2-pin battery connector (C) to the 2-pin Y cable connector (D).
- 3) Wire the 2-pin solar panel connector (E) to the 4-pin Y cable connector (F)



2.3. COMMISSIONING

Identifying the steps to follow

The end limit setting depends on the type of roller blind:



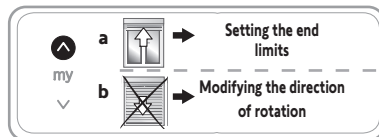
2.3.1. Pre-programming the control point

- 1) Connect the drive (see 2.2. *Wiring*).
- 2) Press the **Up** and **Down** buttons on the control point: The motorised product makes up and down movements (rapidly raising and lowering) and the control point is pre-programmed in the drive.



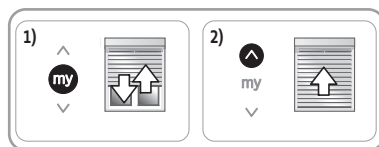
2.3.2. Checking the direction of rotation

- 1) Press the **Up** button on the control point:
 - a) If the motorised product rises (a), the direction of rotation is correct: move onto the section entitled *Setting the end limits*.
 - b) If the motorised product lowers (b), the direction of rotation is incorrect: Go to the *Modifying the direction of rotation* step.



2.3.3. Modifying the direction of rotation

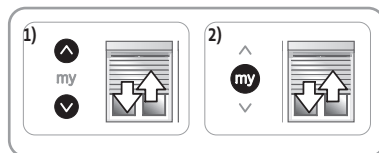
- 1) Press the **my** button on the control point until the motorised product moves up and down: the rotational direction has been modified.
- 2) Press the **Up** button on the control point to control the direction of rotation.



2.3.4. Setting the end limits

Automatic setting of the end limits (2.3.4.a)

- 1) Press the **Up** and **Down** buttons on the control point at the same time: The motorised product moves up and down (moves up and down rapidly).
- 2) Press the **my** button until the motorised product moves up and down.



Setting the end limits in manual mode (2.3.4.b)

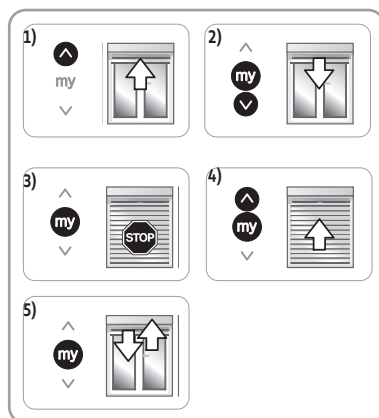
① *The end limits can be set in any order.*

- 1) Raise the motorised product to the desired upper position by pressing the **Up** button.
- 2) Press the **my** and **Down** buttons at the same time until the motorised product moves.
The upper end limit is memorised.
- 3) Press the **my** button when the motorised product reaches the desired lower position. If necessary, adjust the position of the motorised product using the **Up** and **Down** buttons.
- 4) Press the **my** and **Up** buttons at the same time until the motorised product moves.
The lower end limit is memorised. The motorised product rises and stops in the upper position.

The lower end limit is memorised. The motorised product rises and stops in the upper position.

- 5) To confirm the end limits, press the **my** button until the motorised product moves up and down.

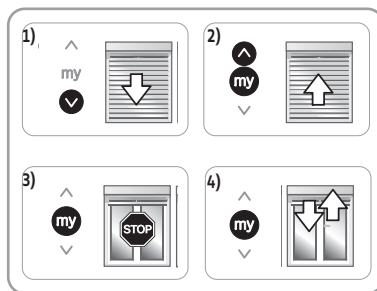
The end limits are programmed.



Setting the end limits in semi-automatic mode (2.3.4.c)

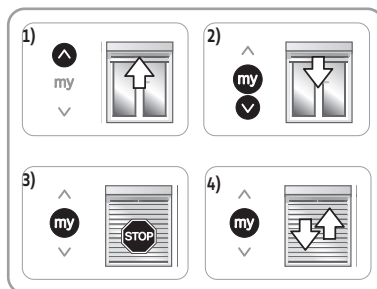
Setting the upper end limit in automatic mode and the lower end limit in manual mode

- 1) Lower the motorised product to the desired position by pressing the **Down** button.
- 2) Press the **my** and **Up** buttons simultaneously until the motorised product rises; the lower end limit is set.
- 3) Press the "**my**" button to stop the motorised product.
- 4) To confirm the end limits, press the **my** button until the motorised product moves up and down.



Setting the upper end limit in manual mode and the lower end limit in automatic mode

- 1) Raise the motorised product to the desired upper position by pressing the **Up** button.
- 2) Press the **my** and **Down** buttons simultaneously until the motorised product lowers; the upper end limit is set.
- 3) Press the "**my**" button to stop the motorised product.
- 4) To confirm the end limits, press the **my** button until the motorised product moves up and down.



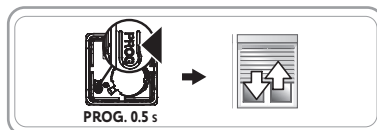
2.3.5. Programming the control point

The drive is in programming mode:

- Briefly press the PROG button on the control point to be programmed:

The motorised product moves up and down: this control point is programmed in the drive.

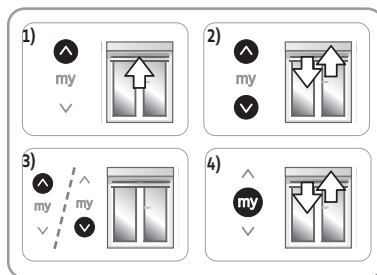
- ① If the drive is no longer in programming mode, repeat Step 2.3.1 before performing Step 2.3.5.



2.3.6. Re-setting the end limits (for end limits set in manual mode)

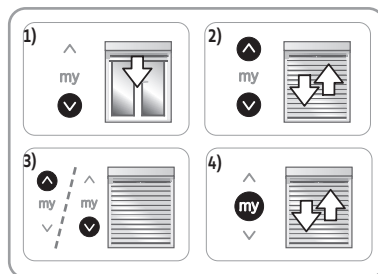
Readjusting the upper end limit

- 1) Press the **Up** button to bring the motorised product to the end limit to be readjusted.
- 2) Press the **Up** and **Down** buttons at the same time until the motorised product moves up and down.
- 3) Press the **Up** or **Down** button to move the motorised product to the new desired position.
- 4) To confirm the new end limit, press the **my** button until the motorised product moves up and down.



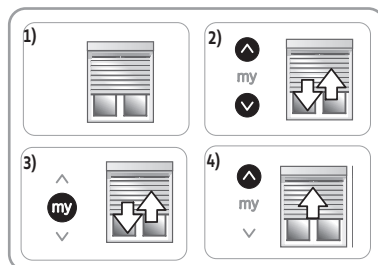
Readjusting the lower end limit

- 1) Press the **Down** button to bring the motorised product to the end limit to be readjusted.
- 2) Press the **Up** and **Down** buttons at the same time until the motorised product moves up and down.
- 3) Press the **Up** or **Down** button to move the motorised product to the new desired position.
- 4) To confirm the new end limit, press the **my** button until the motorised product moves up and down.



2.3.7. Modifying the direction of rotation

- 1) Position the motorised product at the mid-height position.
- 2) Press the **Up** and **Down** buttons at the same time until the motorised product moves up and down.
- 3) Press the **my** button on the control point until the motorised product moves up and down: The direction of rotation has been modified.
- 4) Press the **Up** button to check the direction of rotation.



2.4. TIPS AND ADVICE FOR INSTALLATION

2.4.1. Questions about the product?

Observations	Possible causes	Solutions
The motorised product does not work.	The wiring is incorrect.	Check the wiring and modify it if necessary.
	The battery is discharged.	See 3.5.3. and refer to the battery instructions.
	The control point battery is low.	Check the battery and replace it as required.
	The control point is not compatible.	Check the compatibility and replace the control point if necessary.
	The control point used has not been programmed into the drive.	Use a programmed control point or program this control point.
The motorised product does not respond to the wake-up command.	The motorised product is not set.	Commission the motorised product (see 2.3.).

2.4.2. Replacing a lost or broken Somfy control point



Attention

The double cut-out must be implemented at the drive connection point.

① This reset deletes all the local control points, however the end limit settings and favourite (my) position are retained.

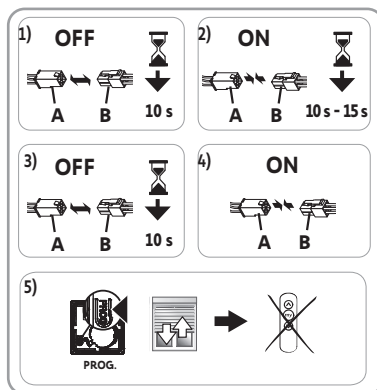
1) Disconnect the drive (connector **A**) from the Y cable (connector **B**) for 10 s.

2) Reconnect the drive (**A**) to the Y cable (**B**) for between 10 s and 15 s.

3) Disconnect the drive (**A**) from the Y cable (**B**) for 10 s.

4) Reconnect the drive (**A**) to the Y cable (**B**): the motorised product moves for a few seconds. (If the application is in the upper or lower limit position, it will make a brief up and down movement).

5) Press the PROG button on the new control point until the motorised product moves up and down: the new control point is programmed and all the other control points are deleted.



2.4.3. Restoring the original configuration



Attention

The double cut-out must be implemented at the connection point with the drive.

① This reset deletes all the control points and all the end limit settings, and resets the drive's favourite (my) position.

1) Position the motorised product at the mid-height position (if possible).

2) Disconnect the drive (connector **A**) from the Y cable (connector **B**) for 10 s.

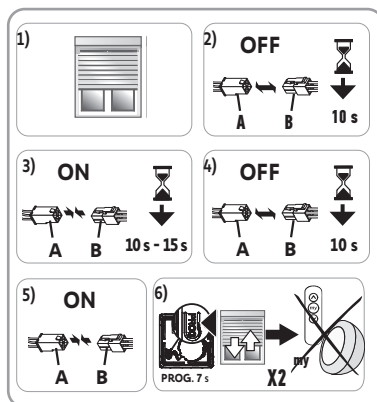
3) Reconnect the drive (**A**) to the Y cable (**B**) for between 10 s and 15 s.

4) Disconnect the drive (**A**) from the Y cable (**B**) for 10 s.

5) Reconnect the drive (**A**) to the Y cable (**B**): the motorised product moves for a few seconds. (If the application is in the upper or lower limit position, it will make a brief up and down movement).

6) Press the PROG button on the Somfy local control point for **≈ 7 s** until the motorised product **moves up and down twice**: the drive is reset to the original configuration.

Resume the commissioning operation (see 2.3.).



3. OPERATION AND MAINTENANCE

① This drive does not require any maintenance operations.

3.1. UP AND DOWN BUTTONS

Briefly pressing the **Up** or **Down** button causes the motorised product to rise or lower fully.

3.2. STOP FUNCTION

The motorised product is moving.

- Briefly press **my**: the motorised product stops.

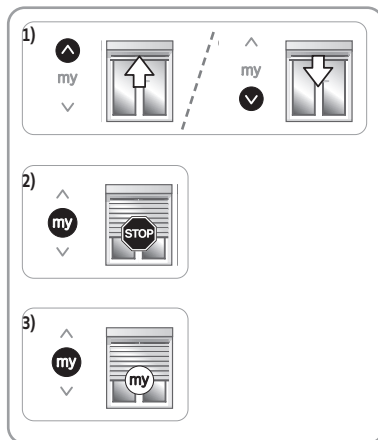
3.3. FAVOURITE (MY) POSITION

An intermediate position, which is called the "favourite (**my**) position" and is different from the upper and lower positions, is programmed as standard.

To use the favourite (my**) position:**

Briefly press **my**: the motorised product starts to move, and stops in the favourite (**my**) position.

① To change or delete the favourite (**my**) position, see the chapter on additional settings.

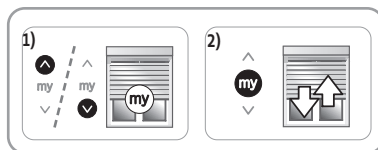


3.4. ADDITIONAL SETTINGS

3.4.1. Modifying the favourite (**my**) position

1) Place the motorised product in the desired favourite (**my**) position.

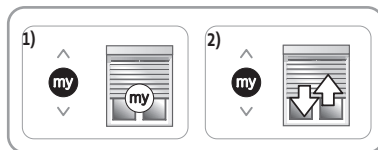
2) Press the **my** button for ≈ 5 s until the motorised product moves up and down: the desired favourite (**my**) position has been programmed.



3.4.2. Deleting the favourite (**my**) position

1) Press **my**: the motorised product starts to move, and stops in the favourite (**my**) position.

2) Press **my** again until the motorised product moves up and down: the favourite (**my**) position is deleted.



3.4.3. Adding/Deleting Somfy control points and sensors

Refer to the corresponding guide.

3.5. TIPS AND RECOMMENDATIONS FOR USE

3.5.1. Questions about the product?

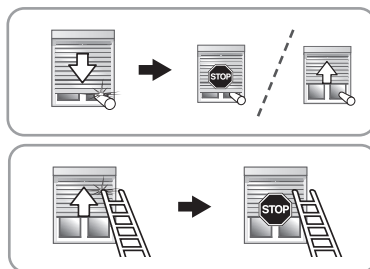
Observations	Possible causes	Solutions
The motorised product does not work.	The battery is discharged.	See 3.5.3. and refer to the battery instructions.
	The control point battery is low.	Check the battery and replace it as required.

If the motorised product still does not work, contact a drive and home automation professional.

3.5.2. Obstacle detection

The automatic obstacle detection function protects the roller shutter and enables obstacles to be cleared:

- If the roller shutter apron comes up against an obstacle when moving down then, depending on the position of the obstacle:
 - Either the roller shutter stops automatically.
 - Or it stops and is automatically raised.
- If the roller shutter apron encounters an obstacle when moving upwards, the roller shutter stops automatically.



3.5.3. Protecting the battery against excessive discharge

Each time the drive receives a raise or lower command, it checks the battery voltage to ensure it is not discharged below 10 V.

- If the battery voltage is greater than 10 V: the drive works normally.
- If the voltage is less than 10 V:
 - The roller shutter will not operate.

① Thanks to the solar panel, the battery voltage will increase above 12 V again and the drive will resume normal operation. However, there is an alternative solution to recharge the battery using the Somfy-compatible external battery charger.

3.5.4. Replacing a lost or broken Somfy control point

To replace a lost or broken control point, contact a drive and home automation professional.

4. TECHNICAL DATA

Power supply	12 V DC	
Radio frequency	868-870 MHz io-homecontrol®, two-way tri-band	
Frequency bands and maximum power used	868.000 MHz - 868.600 MHz 868.700 MHz - 869.200 MHz 869.700 MHz - 870.000 MHz	e.r.p. <25 mW e.r.p. <25 mW e.r.p. <25 mW
Operating temperature	-20°C to +60°C	
Index protection rating	IP44	

For more information about the technical data relating to this drive, please contact a Somfy representative.



Please separate storage cells and batteries from other types of waste and recycle them via your local collection facility.



We care about our environment. Do not dispose of the appliance with the household waste. Take it to an approved collection point for recycling.



SOMFY ACTIVITES SA, 74300 CLUSES FRANCE as manufacturer hereby declares that the drive covered by these instructions and used as intended according to these instructions is in compliance with the essential requirements of the applicable European Directives and in particular of the Machinery Directive **2006/42/EC**, and the Radio Directive **2014/53/EU**.

The full text of the EU declaration of conformity is available at www.somfy.com/ce.

Philippe Geoffroy, Approval manager, acting on behalf of Activity director, Cluses, 01/2021.

SOMFY ACTIVITÉS SA

50 avenue du Nouveau Monde
74300 Cluses - FRANCE

www.somfy.com

somfy®

100% recycled paper



5149934A

SOMFY ACTIVITÉS SA, Société Anonyme, capital 35.000.000 Euros, RCS Annecy, 303.970.230 - 01/2021

Images not contractually binding