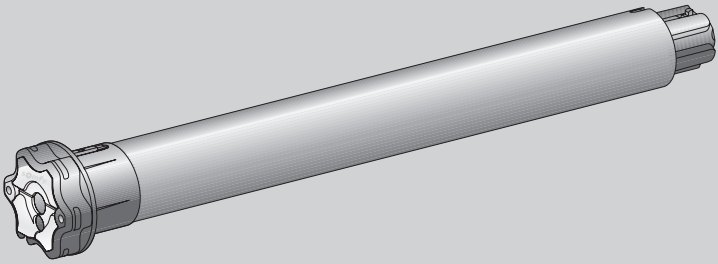

Sonesse Ultra 50 RTS
Sonesse Ultra 50 RTS RH

EN Instructions
FR Notice

Ref. 5120786A

HOME MOTION by somfy®

ORIGINAL GUIDE

These instructions applies to all Sonesse Ultra 50 RTS and Sonesse Ultra 50 RTS RH drive irrespective of torque and speed variations.

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The Sonesse Ultra 50 RTS drive has been developed to meet indoor awning drive requirements.

Its quiet operation ensures user comfort and well-being.

For more information, and to optimise the acoustic performance of your indoor awning, please contact a Somfy adviser.

1. PREREQUISITE INFORMATION

1.1 FIELDS OF APPLICATION

The Sonesse 50 drive is designed to drive all types of indoor awning

(Roller blinds and projection screens), excluding pantographs.

The Sonesse 50 drive is designed to drive multi-banding roller blinds.

The Sonesse 50 drive is designed to drive several roller blinds simultaneously, where these are interconnected by a drive bracket.

The Sonesse 50 drive is not designed to be used with a compensating spring.

Any use outside the fields of application is prohibited, in particular:

The Sonesse 50 drive is not designed for outdoor awnings (e.g. outdoor vertical blinds, roller shutters, etc.)

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1.2 LIABILITY

Before installing and using the drive, please read **operating and installation guide carefully**. 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, according to instructions from Somfy and the regulations applicable in the country in which it is commissioned.

It is prohibited to use the drive outside the fields of application described above. 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 use and maintenance, and the attached **Safety instructions** document, after installing the drive. Any After-Sales Service operation on the drive must be performed by a drive and home automation professional.

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

⚠ Safety warning! Caution! ⓘ Information Λ Up V Down

2. INSTALLATION

Instructions which **must** be followed by the drive and home automation professional installing the drive.

Never drop, knock, drill or submerge the drive.

Install a separate control point for each drive.

To optimize silence, the mechanical plays between motor, accessories, tube and end of tube must be decreased to the maximum.

2.1. INSTALLATION

2.1.1. Preparing the drive

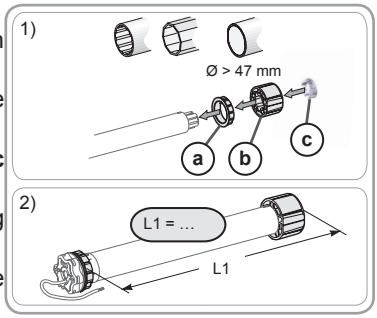
Check that the inner diameter of the tube greater than 47mm.

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

• Fit the crown **a**, the drive wheel **b** and the stop wheel **c** on the drive.

The stop wheel must be screwed with a torque ranging between 1.5 and 1.8 Nm.

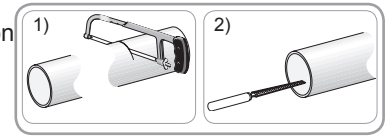
2) Measure the length (L1) between the inner edge of the drive head and the rim of the drive wheel.



2.1.2. Tube preparation

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

2) Deburr the roller tube and remove the swarf.



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2.1.3. Drive/tube assembly

1) Slide the drive into the roller tube.

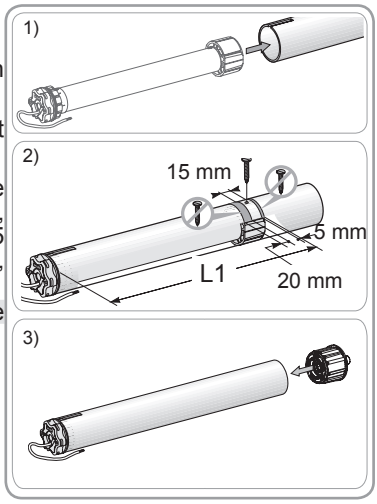
For roller tubes which are smooth inside, position the notch previously cut on the boss on the crown.

2) The drive wheel must be locked in place to prevent it moving along the roller tube:

- This can be done either by fixing the roller tube to the drive wheel using 4 x Ø 5 mm self-tapping screws, or by using 4 x Ø 4.8 mm steel pop rivets placed 5 mm to 15 mm from the outer rim of the drive wheel, regardless of the roller tube.

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

3) Slide the end cap into the roller tube.



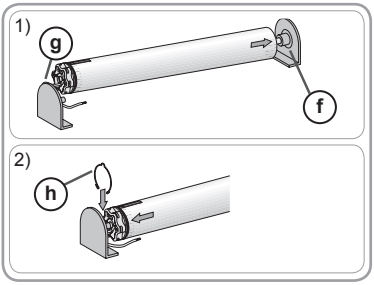
2.1.4. Installing the drive/tube assembly

The motorised product must not be compressed between the brackets

1) Install and fix the drive/tube assembly onto the end bracket **f** and onto the drive bracket **g**:

Ensure that the drive/tube assembly is secured onto the end bracket. This operation prevents the drive/tube assembly from coming out of the end bracket mounting when the roller blind reaches the lower end limit position.

2) Depending on the type of bracket, fit the stop ring **h** in place.



2.2. WIRING

Cables which pass through a metal wall must be protected and isolated using a sheath or sleeve.

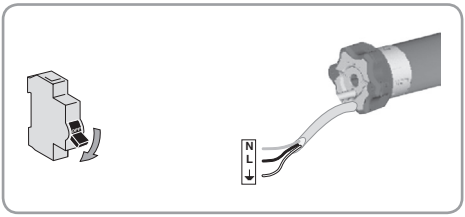
Attach cables to prevent any contact with moving parts.

The cable on the Sonesse Ultra 50 can be removed. If it is damaged, replace it with an identical cable.

Leave the drive power supply cable accessible: it must be possible to replace it easily.

- Switch off the power supply.
- Connect the drive according to the information in the table below:

	Neutral (N)	Live (L)	Earth (⏚)
120V-60Hz	White	Black	Green



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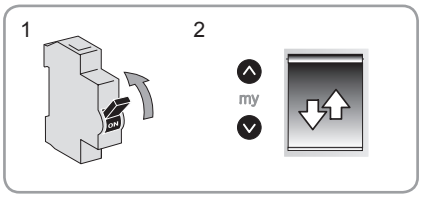
2.3. COMMISSIONING

2.3.1. Pre-programming the RTS control point

1) Switch on the power supply.

2) Press the **Λ/V** buttons on the RTS control point at the same time: The motorised product moves up and down (fast raising and lowering), and the RTS control point is pre-programmed in the motor.

The motorisation is in programming mode for ≈ 10 min.



2.3.2. Checking the direction of rotation

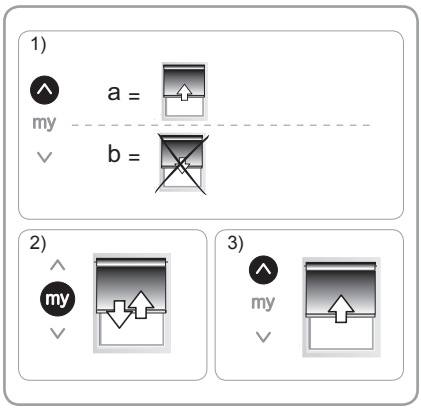
1) Press the **Λ** button on the RTS control point:

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: Move onto the next step.

2) Press the **my** button on the RTS control point until the motorised product moves up and down: The direction of rotation has been modified.

3) Press the **Λ** button on the RTS control point to check the direction of rotation.



2.3.3. Setting the end limits

The end limits can be set in any order.

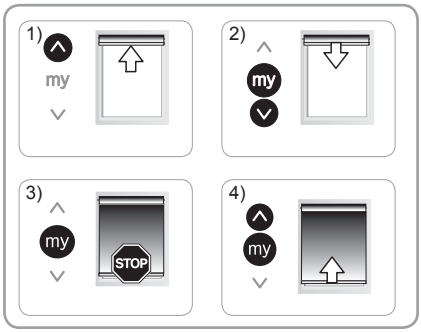
1) Raise the motorised product to the desired position by pressing the **Λ** button.

2) Press the **my** and **V** 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 lowered position. If necessary, adjust the position of the motorised product using the **Λ** and **V** buttons.

4) Press the **my** and **Λ** buttons at the same time until the motorised product moves.

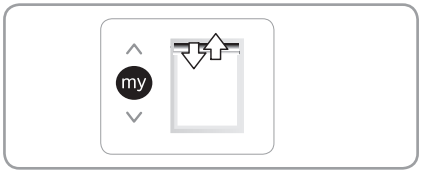


The lower end limit is memorised. The motorised product rises and stops in the raised position.

2.3.4. Validation of the setting

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

The end limits are programmed.



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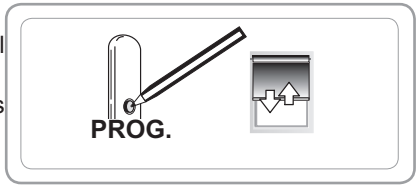
2.3.5. Recording the RTS control point

The motorisation is in programming mode:

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

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



If the motorisation is no longer in programming mode, repeat Step 2.3.1 then perform Step 2.3.4.

2.3.6. Adding/Deleting Somfy control points and sensors

Refer to the corresponding guide.

2.4. TIPS AND RECOMMENDATIONS FOR INSTALLATION

2.4.1. Questions about the Sonesse Ultra 50 RTS?

Observations	Possible causes	Solutions
The motorised product does not operate.	The wiring is incorrect.	Check the wiring and modify it if necessary.
	The Drive is in thermal protection.	Wait until the motor cools down.
	The control point battery is weak.	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 control point used has not been programmed into the motor.	Use a programmed control point or program this control point.
The motorised product is noisy:	The drive wheel and the crown are not suitable for the tube.	Replace the drive wheel and the crown
	The motorised product is compressed between the brackets	Increase the play between the brackets
	The tube contains swarf and screws.	Clean the roller tube.
The motorised product stop to soon or to late.	The end-limits of the motorised product drift.	Readjust the end-limits

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2.4.2. Re-setting the end limits

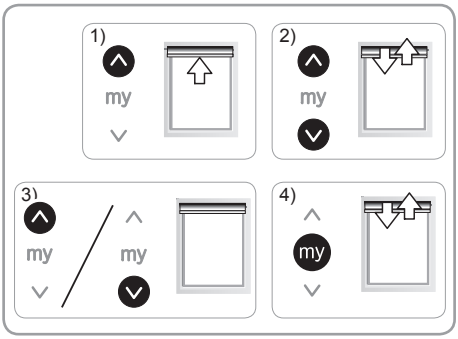
Readjusting the upper end limit

1) Press the **Λ** button to bring the motorised product to the end limit to be readjusted.

2) Press the **Λ** and **V** buttons at the same time until the motorised product moves up and down.

3) Press the **Λ** or **V** 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.



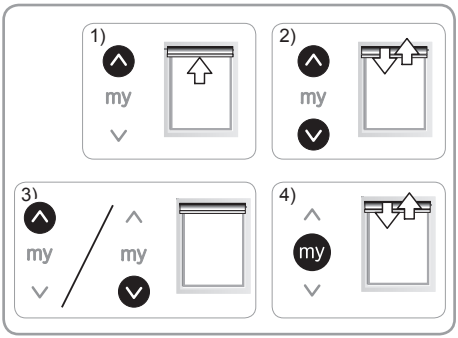
Readjusting the lower end limit

1) Press the **V** button to bring the motorised product to the end limit to be readjusted.

2) Press the **Λ** and **V** buttons at the same time until the motorised product moves up and down.

3) Press the **Λ** or **V** 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.



2.4.3. Replacing a lost or broken Somfy control point

Only switch off the power to the application to be reset.

This reset deletes all the local control points, however the sensors, end limit settings and favourite position are retained.

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

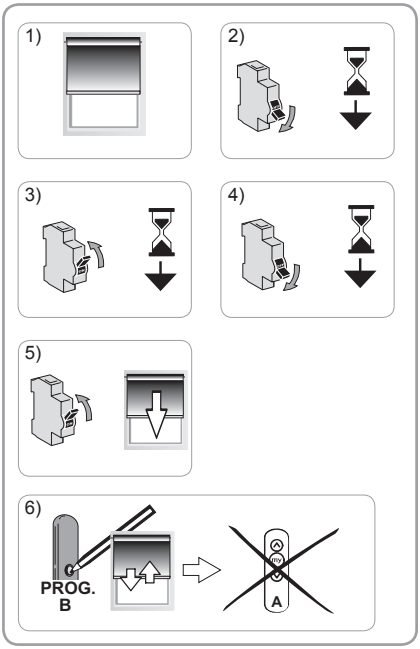
2) Cut the power supply for 2 seconds.

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 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 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.



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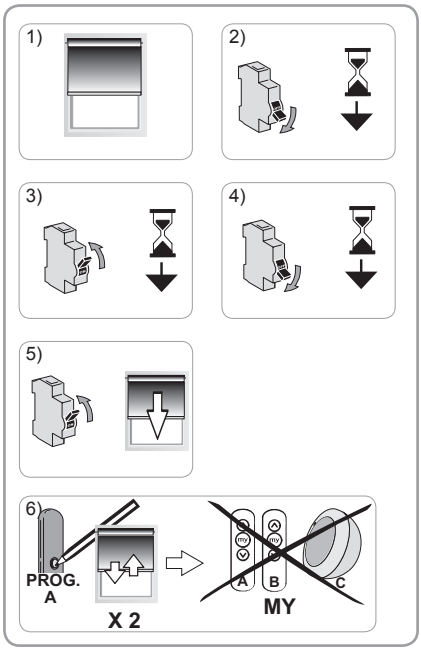
2.4.3. Restoring the original configuration

Only switch off the power to the application to be reset.

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

1) Position the motorised product at the mid-height position.
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 motorised product moves for a few seconds. (If the application is at the upper or lower end limit, it will make a brief up and down movement).
6) Press the PROG button on the Somfy local control point **for ≈ 7 seconds, until the** motorised product moves up and down twice:
   → The motorisation is reset to the original configuration.

- Repeat the commissioning procedure (see **Commissioning)** section.



3. USE AND MAINTENANCE

This drive is maintenance-free

For the safety of goods and people, Somfy motors are equipped with thermal protection that will trigger the motor stops in the event of overheating.

Repeated achieving this protection can degrade engine performance.

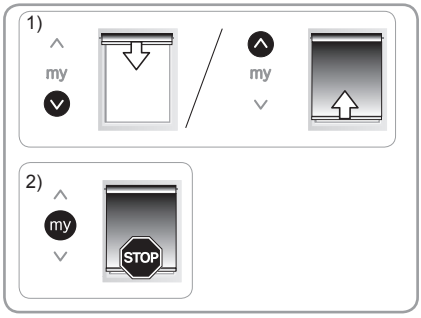
If the motor goes to thermal protection, please check your installation and check that the motor is rated for the intended use.

A normal installation is not expected to trig this protection.

To avoid the drift of the end limits, do not cut the power supply more than 1 week.

3.1. UP AND DOWN BUTTONS

Pressing the **Λ** or **V** button fully raises or lowers the motorised product.



3.2. STOP FUNCTION

The motorised product is moving.

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

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3.3. FAVOURITE POSITION (my)

Besides the upper and lower positions, an intermediate position known as the “favourite position (my)” is programmed as standard in the Sonesse 50.

To use the favourite position (my):

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

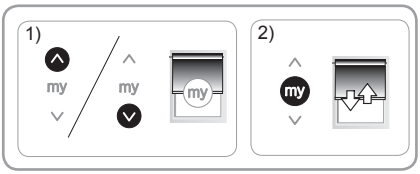
ⓘ To modify or delete the favourite (my) position, see the section entitled “Additional settings”.

3.4. ADDITIONAL SETTINGS

3.4.1. Modifying the favourite position (my)

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

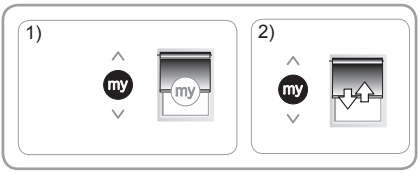
2) Press **my** for ≈ 5 seconds until the motorised product moves up and down: the desired favourite position (my) has been programmed.



3.4.2. Deleting the favourite position (my)

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

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



3.5. TIPS AND RECOMMENDATIONS FOR USE

3.5.1. Questions about the Sonesse Ultra 50 RTS?

Observations	Possible causes	Solutions
The motorised product does not operate.	The control point battery is weak.	Check whether the battery is weak and replace it if necessary.
	The motorisation is in thermal protection mode.	Wait for the motor to cool down.

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

3.6.2. Replacing a lost or broken Somfy control point

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

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4. TECHNICAL DATA

Power supply	120V~ 60 Hz
Radio frequency	433.42 MHz
Operating temperature	0°C to + 60°C
Index protection rating	IP 31
Safety level	Class I
Maximum number of control points	12
Maximum number of sensors	3

Somfy hereby declares that the drive covered by these instructions when marked for input voltage 230V 50Hz when used as intended according to these instructions, is in compliance with the essential requirements of the Machinery Directive 2006/42/EC and the R&TTE Directive 1999/5/EC.

An EC declaration of conformity detailing standards and specifications used and stating all particulars for identification of the drive, name and address of the person(s) authorised to compile the technical file and empowered to draw up the declaration including place and date of issue can be found at the Internet address www.somfy.com/ce.

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