

Sunis RTS



Operating and installation guide

Ref. 5054472A

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Somfy's expertise delivers satisfaction guaranteed.

Thank you for choosing a Somfy Sunis 1 RTS.

Before installing and using the Sunis 1 RTS, please read this guide carefully.

Somfy solutions animate your windows and entrances to bring your whole house alive. Somfy solutions are designed so that everyone can enjoy the benefits of the products in their home, based on their specific requirements.

In this guide, the term 'product' can include your awning, blind, curtain, garage door, gate, projection screen, roller shutter.

Well thought-out and easy to use, Somfy solutions are one of life's little daily pleasures, making home life more enjoyable.

1. The Sunis RTS in brief

1.1 What does the Sunis RTS do?

The Sunis RTS is a wireless sun sensor equipped with Somfy Radio Technology (RTS). It operates autonomously using integrated solar cells.

The Sunis RTS allows the user to regulate the amount of sunlight entering the house by automatically lowering or raising roller shutters, blinds and/or awnings, according to the ambient light intensity. It thus allows the interior temperature to be regulated during the day in order to protect plants, furniture and paintings inside the house, as well as garden or terrace furniture.

The Sunis RTS is only compatible with products equipped with Somfy Radio Technology (RTS) for example, roller shutter motors, awning motors, Telis RTS type remote controls with Sun function and RTS sensors.

1.2 A few definitions

Installation:

All of the Radio Technology Somfy products a house is equipped with.

Favourite position:

The favourite position is your ideal position for your product in certain common situations, for example, your awning partially extended when

you are dining beneath it in summer but don't want to deprive your houseplants of sunlight; your curtains or blinds partially closed to shield your computer from the afternoon sunlight.

Blind/awning:

Group of products including internal blinds, external awnings and venetian awnings.

2. Safety - Important information

2.1 Installation and commissioning

Read this guide carefully before installing and using the Sunis RTS.

This guide describes the installation, commissioning and use of the Sunis RTS.

Before beginning installation, make sure that the Sunis RTS is compatible with the equipment and associated accessories.

Any incorrect use will invalidate the warranty and Somfy's liability.

2.2 Operating

- The use of an awnings (eg. wind sensor) is recommended
- Somfy accepts no liability in the event of damage to equipment caused by weather conditions not detected by the sensor.
- Do not allow children to play with roller shutters, awnings or control points. Keep remote controls out of the reach of children.
- Monitor the roller shutter/awning while it is moving, especially during commissioning of the Sunis RTS, and keep people at a distance until the roller shutter/awning is completely closed.
- Make sure the power supply to the roller shutter/awning is turned off before any maintenance operation in the vicinity of the product (for example, when cleaning windows near your awning).
- Avoid moving the roller shutter/awning if ice has formed in it, unless the motor is fitted with anti-freeze protection.
- The Sunis RTS operates using a sunlight sensor and solar cells. Ensure that the sunlight sensor and the solar cells are kept clean and are not obstructed by leaves, snow, etc. Clean the sunlight sensor and the solar cell protective glass using a dry cloth.
- Do not use maintenance products to clean the Sunis RTS.

- Do not wet the Sunis RTS or immerse it in liquids.
- Frequently check the product (e.g. awning) to detect any defects in balance or any signs of wear. Do not use the product if a repair or adjustment is required.

2.3 Environment

Do not dispose of damaged electrical or electronic products with household waste. Please take them to a collection point or an approved centre to ensure they are recycled correctly.

3. Content of the kit and tools required

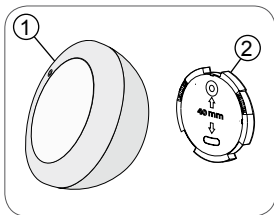
3.1 List of parts

- Before beginning installation and commissioning of the Sunis RTS, check that all parts listed in the table below are present in the correct quantity (Q):

No.	Components	Q.
1	Sunis RTS	1
2	Mounting bracket	1

The Sunis RTS is supplied without screws and plugs. Use screws and plugs (\varnothing 4.5 mm) suitable for the wall: wood, brick, concrete, etc.

Caution: do not use round head screws, only flat screws of the diameter indicated.



3.2 Tools required

- Appropriate screwdriver for the screws to be used
- Drill and drill bit
- Pencil.

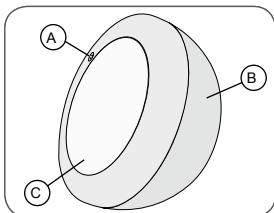


4. The Sunis RTS in detail

4.1 Components

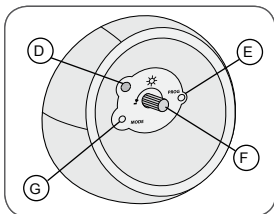
Front:

- A. Sunlight sensor (detects light intensity)
- B. Housing
- C. Solar cells (to charge the sensor)



Rear:

- D. Indicator light showing the light intensity and mode selected
- E. PROG button
- F. Potentiometer
- G. MODE button (to switch between "INSTALLATION" and "Use" modes)



4.2 Technical data

Size:

Diameter: 100 mm

Depth: 50 mm

Operating temperature: -20°C to +60°C

Index Protection rating: outdoor use - IP 44

Frequency: 433.42 MHz

Range: 20 m through two concrete walls; 200 m in open space

Power supply: solar cells

Autonomy: 24 hours with no additional light intensity supply

5. Installing the Sunis RTS

5.1 Components required for installation

- To install and use the Sunis RTS, the roller shutter/awning to which the Sunis is connected should already be linked to a remote control equipped with the Sun function:

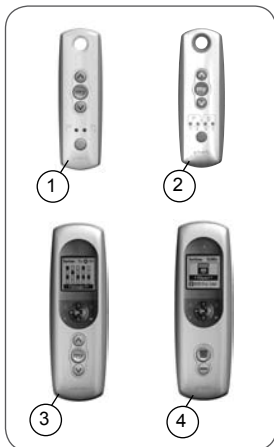
- Telis Soliris RTS (1),
- Telis 4 Soliris RTS (2),
- Telis Composio RTS (3),
- Impresario Chronis RTS (4), etc.

- If none of these remote controls has been linked, this should be done first.

NB: the use of an additional wind protection device (eg. wind sensor) is recommended for awnings.

- Up to 3 sensors may be assigned to a roller shutter/awning. The Sunis RTS can thus be combined with other RTS sensors.

- Before beginning installation, make sure that the Sunis RTS is compatible with the equipment and associated accessories.



5.2 Adding the Sunis RTS

5.2.1 Advice on adding the Sunis RTS

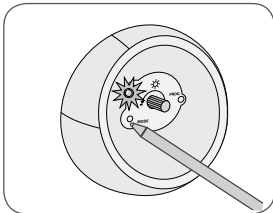
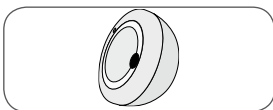
- This guide describes the procedure for connecting a Sunis RTS to a compatible RTS roller shutter/awning.
- To connect the Sunis RTS to several motors, carry out the procedure described in the paragraph entitled "Connecting the Sunis RTS" for each of the roller shutters/awnings to be connected.
- For some roller shutters/awnings, entry into programming mode and adding and removing a component (eg. a sensor) are indicated by a series of "beeps" emitted by the motor. For other roller shutters/awnings, they are indicated by a slight movement of the roller shutter/awning.
- Place the roller shutter/awning in the midway position before installing the Sunis RTS, so that any movements can be easily seen.

5.2.2 Charging the Sunis RTS

- Remove the protective film from the Sunis RTS.
- Place the Sunis RTS in a light location for at least 20 minutes to charge it:
 - Place the cells in a location with as much natural light as possible, preferably outside, and not behind glass.
- After 20 minutes, press the MODE button briefly to check the sensor's charge level:
 - The sensor is ready for use when the indicator light comes on.
 - If the indicator light does not come on, place the sensor in natural light for another 20 minutes then test.

Information on charging times:

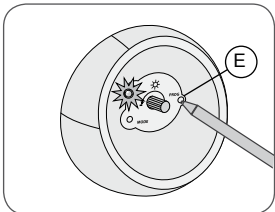
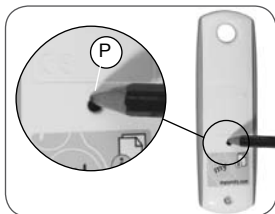
- ▶ Initial charge: 20 mins.
- ▶ Full charge: 1 hr 30 mins.
- ▶ Discharging: 24 hrs without sunlight.



5.2.3 Connecting the Sunis RTS from a Telis Soliris RTS

NB: the Telis Soliris RTS has 2 indicator lights.

- Stand near to the roller shutter/awning to install the Sunis RTS.
- Place the roller shutter/awning in the midway position using the Telis Soliris RTS.
- Turn the Telis Soliris RTS over: the PROG button (P) is located on the rear of the unit.
- Press the PROG button (P) with the tip of a pencil until the roller shutter/awning moves slightly (or 3 “beeps” sound): the PROG function is activated for 2 minutes.
- Press the PROG button (E) on the Sunis RTS briefly with the tip of a pencil: the associated roller shutter/awning moves slightly again (or 8 “beeps” sound) to indicate that the Sunis RTS has been programmed.



5.2.4 Connecting the Sunis RTS from a Telis 4 Soliris RTS

NB: the Telis 4 Soliris RTS has 4 indicator lights.

Stand near to the roller shutter/awning to install the Sunis RTS.

- Select channel 5 with the Selection button (S):

- ▶ The 4 indicator lights come on at the same time.

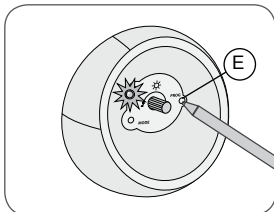
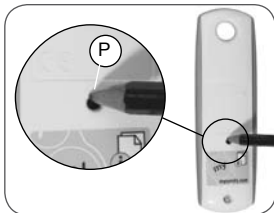
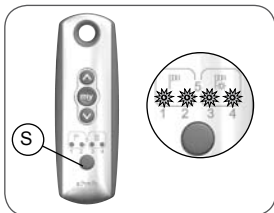
- Place the roller shutter/awning in the midway position using the Telis 4 Soliris RTS.

NB: if channel 5 cannot be used to control the roller shutter/awning to be connected to the Sunis RTS, connect the roller shutter/awning to the fifth channel of the Telis 4 Soliris RTS (refer to the Telis 4 RTS guide to carry out this procedure)

- Turn the Telis 4 Soliris RTS over: the PROG button (P) is located on the rear of the unit.

- Press the PROG button (P) with the tip of a pencil until the roller shutter/awning moves slightly (or 3 “beeps” sound): the PROG function is activated for 2 minutes.

- Press the PROG button (E) on the Sunis RTS briefly with the tip of a pencil: the associated roller shutter/awning moves slightly again (or 8 “beeps” sound) to indicate that the Sunis RTS has been programmed.

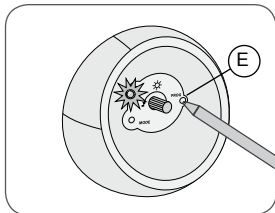
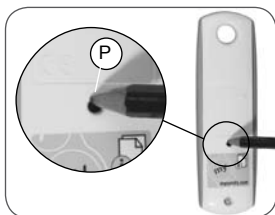


5.2.5 Connecting the Sunis RTS from a Telis Compositio RTS

A linked individual remote control must be used to install the Sunis RTS from a Telis Compositio RTS. It is not possible to install the Sunis RTS directly from the Telis Compositio RTS.

Stand near to the roller shutter/awning to install the Sunis RTS.

- Use the remote control linked to the roller shutter/awning that only controls that roller shutter/awning: pressing the Up or Down button only moves the roller shutter/awning to which the Sunis RTS is to be connected.
- Bring the product to the midway position.
- Turn the remote control over: the PROG button (P) is located on the rear of the unit.
- Press the PROG button (P) on the remote control linked to the roller shutter/awning until the roller shutter/awning moves slightly (or 3 “beeps” sound): the PROG function is activated for 2 minutes (refer to the remote control guide).
- Press the PROG button (E) on the Sunis RTS briefly with the tip of a pencil: the associated roller shutter/awning moves slightly again (or 8 “beeps” sound) to indicate that the Sunis RTS has been programmed.

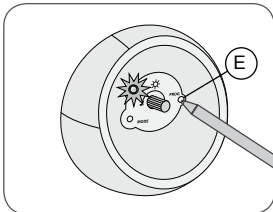
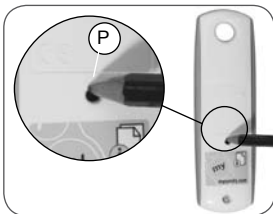


5.2.6 Connecting the Sunis RTS from an Impresario Chronis RTS

A linked individual remote control must be used to install the Sunis RTS from an Impresario Chronis RTS. It is not possible to install the Sunis RTS directly from the Impresario Chronis RTS.

Stand near to the roller shutter/awning to install the Sunis RTS.

- Use the remote control linked to the roller shutter/awning that only controls that roller shutter/awning: pressing the Up or Down button only moves the roller shutter/awning to which the Sunis RTS is to be connected.
- Bring the product to the midway position.
- Turn the remote control over: the PROG button (P) is located on the rear of the unit.
- Press the PROG button (A) on the remote control linked to the roller shutter/awning until the roller shutter/awning moves slightly (or 3 “beeps” sound): the PROG function is activated for 2 minutes (refer to the remote control guide).
- Press the PROG button (E) on the Sunis RTS briefly with the tip of a pencil: the associated roller shutter/awning moves slightly again (or 8 “beeps” sound) to indicate that the Sunis RTS has been programmed.



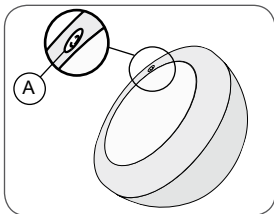
6. Setting

6.1 Installation recommendations

- Install the Sunis RTS on a sunny day with no wind.

Caution! Never configure the settings on a windy day.

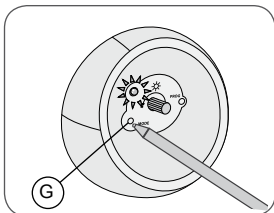
- To set or adjust the Sunis RTS, stand near to the roller shutter/awning, preferably outside, in order to simulate normal conditions of use.
- Ensure that the sunlight sensor (A) of the Sunis RTS is not hidden during adjustment.
- Activate the Sun function (see paragraph entitled “Activating the Sun function”) using the remote control equipped with the Sun function.



6.2 Setting the sunlight sensitivity

Somfy recommends configuring the Sunis RTS settings on a day when the amount of sunlight corresponds to the level required to activate the roller shutter/awning.

- Stand near to the desired mounting location of the Sunis RTS.
- Place the roller shutter/awning in the upper position.
- Position the Sunis RTS so that the sunlight sensor detects light.
- Press the MODE button (G) on the Sunis RTS with the tip of a pencil until the associated roller shutter/awning moves slightly (or 3 “beeps” sound):
 - ▶ The indicator light flashes for approximately 30 seconds.
 - ▶ The SUNIS RTS is in INSTALLATION mode.

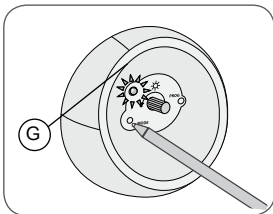
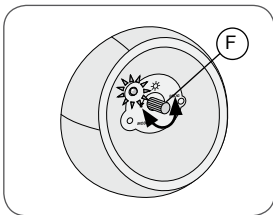


NB: the Sunis RTS remains in

INSTALLATION mode for 3 minutes. It automatically switches to USE mode when 3 minutes have elapsed.

- Turn the potentiometer (F) manually to the left (-) or the right (+) until the indicator light illuminates green:
 - ▶ The sunlight sensor's sensitivity threshold is set according to the current sunlight level.
- Place the Sunis RTS sunlight sensor in a location with strong natural light:
 - ▶ After a few seconds, the roller shutter/awning moves downwards then stops: the Sunis RTS has detected the current sunlight.
- Press the MODE button (G) on the Sunis RTS with the tip of a pencil until the associated roller shutter/awning moves slightly (or 3 "beeps" sound) to exit INSTALLATION mode and activate USE mode

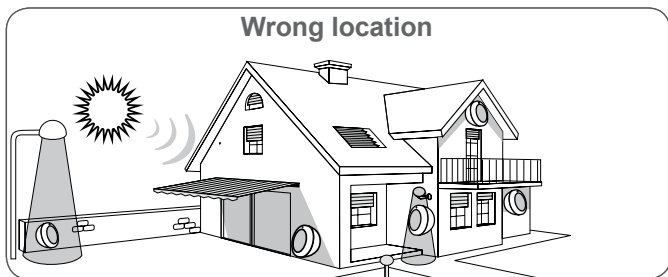
NB: the Sunis RTS is set according to the current sunlight level. This setting can be modified at any time as required.



7. Mounting the Sunis RTS

7.1 Advice on choosing a location

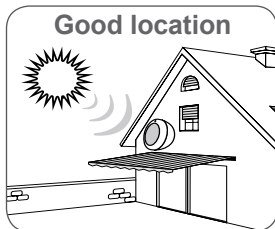
- Choose a location with easy access to allow the sunlight sensor and solar cells to be cleaned regularly (see paragraph 2.2 Use and 8.3 Maintenance).
- Do not install the Sunis RTS under a balcony, eaves, an awning or in any other place where it could be shaded from the sun.
- Do not install the Sunis RTS under a lamp, lamppost or any other source of artificial light that may interfere with the detection of sunlight.



- Install the Sunis RTS vertically, in a location where the solar cells will receive daylight, eg. on an external wall (wood, brick, concrete, etc.).

Caution: do not mount the Sunis RTS on a metal surface.

Minimum distance to be observed between two RTS components: 30 cm.

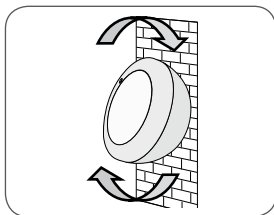
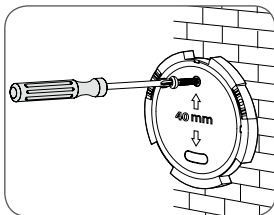


7.2 Mounting and fitting

- Drill two holes (diameter 4.5 mm), one below the other and 40 mm apart.
- Insert two plugs suitable for the screws (\varnothing 4.5 mm) and the wall: wood, brick, concrete, etc.
- Mount the bracket (2) with two screws, positioning the long hole at the bottom, with the "40 mm" marking visible. Do not tighten the second screw fully.

Caution: do not use round head screws, only flat screws of the diameter indicated.

- Place the Sunis RTS on the bracket with the sunlight sensor at the top.
- Turn the Sunis RTS clockwise to secure it on the bracket.
- If the Sunis RTS is not mounted straight:
 - Remove the Sunis RTS from its bracket by turning it anticlockwise.
 - Rotate the bracket using the long hole.
 - Retighten the second screw.
 - Refit the Sunis RTS on its bracket.



8. The Sunis RTS day to day

8.1 Activating the Sun function

The sun, or wind and sun function must be activated to allow the sensor on the roller shutter/awning to operate.

- Activate the Sun function using the remote control (refer to the remote control guide for more information):
 - ▶ The roller shutter/awning reacts automatically to the variations in sunlight.

Caution! If a Wind sensor is associated with the same roller shutter/awning, and if the wind blows harder than the maximum limit set on the Wind sensor, the roller shutter/awning no longer reacts to the variations in sunlight.

NB: the use of an additional wind protection device (eg. wind sensor) is recommended for awnings.

8.2 The Sun function

When the Sun function is activated, the roller shutter/awning does not lower or raise immediately when there is only the slightest variation in sunlight:

- When the sunlight level is at the set threshold for 2 minutes, the Sunis RTS sends a signal to the roller shutter/awning and places it in the protection position.
- When the sunlight level drops below the set threshold, the Sunis RTS sends a signal to the roller shutter/awning. The roller shutter/awning then analyses the signal and starts to move after a delay of 15 to 30 minutes. This delay depends on how long the actual sunlight lasts before the sun disappears.

NB: the reaction of the roller shutter/awning depends on the motor fitted to it. The following section gives an overview of the possible reactions.

NB: some roller shutter motors are equipped with a special function which inhibits the movement of the roller shutter if it is in the lowered position (roller shutter closed). The roller shutter will not change its position if the sun appears or disappears.

8.3 Sunis RTS with awning

The reactions of the awning when the sun appears and disappears depend on:

- how long the sunlight lasts, as detected by the Sunis RTS,
- the type of motor fitted to the awning, and
- whether a favourite position has been programmed.

8.3.1 Sun appearing

When the sunlight level has been at the set threshold for 2 minutes, a signal is sent to the awning, which:

- ▶ Moves to the favourite position,
- ▶ Remains in the favourite position, or
- ▶ Moves to the lowered position.

8.3.2 Sun disappearing

When the sunlight level drops below the set threshold, a signal is sent to the awning, which, following a delay of 15 to 30 minutes:

- ▶ Moves to the raised position or
- ▶ Remains in the raised position.

This delay prevents the awning from making unnecessary movements every time a cloud crosses the sun, for example.

8.4 Sunis RTS with roller shutter

The reactions of the roller shutter when the sun appears and disappears depend on:

- how long the sunlight lasts, as detected by the Sunis RTS,
- the type of motor fitted to the roller shutter, and
- whether a favourite position has been programmed.

NB: some roller shutter motors are equipped with a special function which inhibits the movement of the roller shutter if it is in the lowered position (roller shutter closed). The roller shutter will not change its position if the sun appears or disappears.

8.4.1 Sun appearing

When the sunlight level has been at the set threshold for 2 minutes, a signal is sent to the motorised roller shutter, which:

- ▶ Moves to the favourite position,
- ▶ Remains in the favourite position,
- ▶ Moves to the lowered position, or
- ▶ Remains in the lowered position.

8.4.2 Sun disappearing

When the sunlight level drops below the set threshold, a signal is sent to the roller shutter, which, following a delay of 15 to 30 minutes:

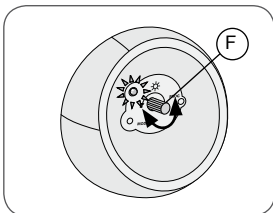
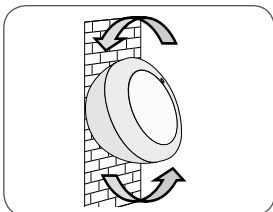
- ▶ Moves to the raised position,
- ▶ Remains in the favourite position, or
- ▶ Remains in the lowered position.

This delay prevents the awning from making unnecessary movements every time a cloud crosses the sun, for example.

8.5 Modifying the sunlight sensitivity threshold

The sunlight sensitivity setting on the Sunis RTS may be modified at any time following installation (eg. to adjust the initial setting or to adapt it to the season):

- Turn the Sunis RTS anticlockwise to release it from the mounting bracket.
- Take the sensor and turn it over.
- Adjust the setting using the potentiometer:
 - If the roller shutter/awning moves when the light is insufficient: turn the potentiometer (F) to the right (+).
 - ▶ More sunlight will be required to trigger movement.
 - If the roller shutter/awning does not move when the light is sufficient: turn the potentiometer (F) to the left (-).
 - ▶ Less sunlight will be required to trigger movement.



8.6 Maintenance

The Sunis RTS operates using a sunlight sensor and solar cells.

- Make sure that the sunlight sensor and the solar cells are kept clean, and are not obstructed by leaves, snow, etc.
- Clean the sunlight sensor and the solar cell protective glass using a dry cloth.
- Do not use maintenance products to clean the Sunis RTS.
- Do not wet the Sunis RTS or immerse it in liquids.

9. Problems with the Sunis RTS?

9.1 Questions and answers

Problem	Possible causes	Solutions
The roller shutter/awning does not react when the sun appears/disappears.	The Sun function cannot be activated using the remote control.	On the remote control, activate the Sun function - refer to the remote control guide.
	The sunlight sensitivity threshold is incorrectly set.	Modify the sunlight sensitivity threshold (see paragraph entitled "Modifying the sunlight sensitivity threshold").
	The Sunis RTS is not connected to this roller shutter/awning.	Repeat the connection procedure (see paragraph entitled "Adding the Sunis RTS"). If the Sunis RTS still does not operate, contact Somfy's support service.
	The sunlight sensor and/or solar cells are dirty or obstructed by dust, leaves or snow.	Clean the sunlight sensor and the solar cells' protective glass using a dry cloth (see paragraph entitled "Maintenance").
	The radio reception is poor; an obstacle is interfering with the Sunis RTS's transmission.	Move the Sunis RTS (see paragraph entitled "Advice on choosing a location").
	The associated wind sensor is detecting wind and inhibiting the Sun function.	Wait until the wind sensor no longer detects any wind and unlock the roller shutter/awning's lowering function.
	The roller shutter/awning is already in the favourite position.	Place the roller shutter in the raised position to check whether it lowers to the favourite position (see paragraph "Sunis RTS with roller shutter").

Problem	Possible causes	Solutions
The Sunis RTS's indicator light does not come on.	The Sunis RTS is not sufficiently charged.	Expose the Sunis RTS to daylight for 20 minutes (see paragraph entitled "Charging the Sunis RTS").
Another roller shutter/awning reacts when the sun appears/disappears.	The Sunis RTS has been added to this roller shutter/awning.	If this roller shutter/awning should not be linked to the Sunis RTS, carry out the removal procedure (see paragraph entitled "Removing the Sunis RTS"). If another roller shutter/awning should be linked to the Sunis RTS, stand near to the roller shutter/awning and carry out the adding procedure (see section entitled "Adding the Sunis RTS").

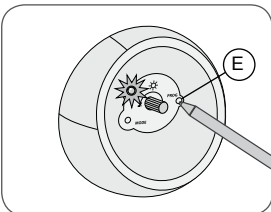
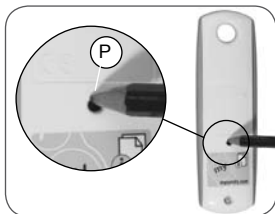
If the Sunis RTS still does not operate, contact Somfy's support service.

9.2 Removing the Sunis RTS

- Turn the Sunis RTS anticlockwise to release it from the mounting bracket.
- Take the sensor and turn it over.

Stand near to the roller shutter/awning to remove the Sunis RTS.

- Bring the product to the midway position.
- Press the PROG button on the remote control assigned to the roller shutter/awning to activate the PROG function (see remote control guide).
- The roller shutter/awning moves slightly (or 3 “beeps” sound): the PROG function is activated for approximately 2 minutes.
- Press the PROG button (E) on the Sunis RTS briefly with the tip of a pencil: the associated roller shutter/awning moves slightly again (or 8 “beeps” sound) to indicate that the Sunis RTS has been removed.
- Remove the bracket from the wall if the Sunis RTS is no longer being used.



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Somfy hereby declares that this product conforms to the essential requirements and other relevant provisions of Directive 1999/5/CE. A Declaration of Conformity is available at www.somfy.com/ce.

For use in the European Union, the Swiss Confederation (Switzerland) and Norway.