



Soliris io

- **FR** Notice **EN** Instructions
- **DE** Anleitung
- DE Aniertung
- NL Handleiding
- IT Manuale

- DA Brugsanvisning
- FI Käyttöopas
- **SV** Bruksanvisning
- **NO** Veiledning



TRANSLATED VERSION

These instructions apply to all versions of Soliris io, the different models of which are available in the current catalogue.

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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. INTRODUCTION

1.1. FIELD OF APPLICATION

The Soliris io sensor is a wind and sun sensor equipped with io-homecontrol® radio technology.

Connected directly to io-homecontrol[®] motors for terrace awnings, vertical blinds, pergolas, external venetian blinds or swinging shutters, Soliris io allows these applications to be controlled automatically if the wind blows stronger than a pre-set threshold and according to the lighting intensity (Sun).

Wind and sun sensitivity thresholds are pre-set by default, but they can be adjusted on the sensor, according to requirements and actual climatic conditions.

1.2. LIABILITY

Before installing and using Soliris io, please read these instructions carefully.

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

Any operation of the Soliris io sensor outside the scope of application described above is prohibited. Such use, and any failure to comply with the instructions given in this guide, absolves Somfy of any liability and invalidates the warranty.

The installer must inform his customers of the usage and maintenance conditions of the Soliris io sensor and must provide them with the user and maintenance instructions after installing the Soliris io sensor. Any after-sales service operation on the Soliris io sensor requires intervention by a home motorisation and automation professional.

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

Somfy accepts no liability in the event of damage to equipment caused by weather conditions not detected by the sensor.

Should any doubt arise during installation of the Soliris io sensor or for additional information, consult a Somfy contact or visit www.somfy.com.

1.3. SPECIFIC SAFETY ADVICE

Attention

To prevent damage to the sensor:

- Avoid impacts!
- Do not drop it!
- Do not submerge it.
- Do not use abrasive products or solvents to clean the product.
- Do not clean it using a water spray or high pressure cleaning methods.

Ensure that the sensor is kept clean and regularly check it is operating correctly.

This sensor does not protect the motorised products in the event of strong gusts of wind. If there is a risk of this kind of weather, ensure that the motorised products remain closed.

1.4. CONTENTS

	Description	Quantity
А	Soliris io sensor	1
В	Cable (depending on version)	1
С	Screws	2
D	Plugs	2



1.5. TOOLS REQUIRED

- Drill and drill bit
- Cross-head screwdriver
- Flat-blade screwdriver
- Pencil
- Depending on the sensor version, some accessories required for installation are not supplied with the kit:
 - Power cable whose section is between 0.75 and 1.5 mm² and meeting the standards in force in the country of installation



1.6. SOLIRIS IO IN DETAIL

	Description
Е	Sun sensor
F	Anemometer
G	Protective housing
Н	Mounting bracket
I	PROG button
J	Sun LED
К	Wind LED
L	Sun potentiometer
М	Wind potentiometer



2. INSTALLATION

2.1. INSTALLATION RECOMMENDATIONS

- Choose a location with maximum wind detection and which is not hindered by obstacles: install the sensor in a location that is not sheltered from the wind
- Choose a sunny location where sunshine detection is compatible with wind detection.
- Install the sensor near the product which it controls.
- Never install the sensor underneath the motorised product or under artificial lighting.
- Always fit the sensor with the anemometer (F) on top!
- ① The articulated structure of the Soliris io sensor enables it to be mounted on walls or roofs with a slope of up to 15°.

2.2. MOUNTING THE SENSOR BRACKET

- 1] Drill two holes, 38 mm apart and horizontally aligned.
- 2] Push the plugs (D) in (use the plugs supplied or a suitable model for the medium)
- 3] Remove the protective housing (G) and then fix the sensor mounting bracket (H) to the wall using the screws (C) supplied.

2.3. WIRING

2.3.1. Soliris io wiring

Attention

Perform disassembly and wiring operations away from any dust, moisture or foreign bodies to maintain tightness.









- 1] Switch off the mains power supply.
- 2] Unscrew the front panel (N) of the mounting bracket to access the terminal block.



Attention

Never remove the cover located under the anemometer.

- 3] Unscrew the left-hand metal tab (O).
- 4] Drill a hole in the left-hand sealant pad (P).

Attention



- The hole drilled in the pad must not exceed the diameter of the cable in order to maintain tightness.
- 5] Feed the cable (B) through the sealant pad.
- 6] Connect the power supply cable (B) to the sensor using the lefthand terminal block marked "230V" (Q).



Attention

Attention

The cable must be stripped to 6 mm.

7] Screw in the metal tab (O): the cable must be fed under the tab.

Δ

The cable sheath must exceed the tab by at least 2 mm.

- (1) To add the wiring for a rain sensor (e.g. Ondeis), go to section 2.3.2.
- 8] Check the presence, good condition and the position of the seal (R) before fitting the cover.
- 9] Screw the front panel (N) of the mounting bracket back on.



Tighten the screws completely to maintain the tightness of the mounting bracket.

To complete the installation, go to section 2.4.



















2.3.2. Connecting a rain sensor (e.g. Ondeis) to the Soliris io sensor

Attention



- In addition to the instructions provided in this manual, you must also comply with the detailed instructions in the rain sensor manual.
- Perform disassembly and wiring operations away from any dust, moisture or foreign bodies to maintain tightness.
- ① To connect a rain sensor after completing the procedure in section **2.3.1**., go directly to step **4**].

To add the wiring for a rain sensor later on, after the Soliris io sensor has been installed, follow the procedure below :

- 1] Switch off the mains power supply.
- 2] Remove the protective housing (G).



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3] Unscrew the front panel (N) of the mounting bracket to access the terminal block.



- 4] Unscrew the **right-hand** metal tab (S).
- 5] Drill a hole in the **right-hand** sealant pad (T). *Attention*



- Never remove the sealant pad.
- The hole drilled in the pad must not exceed the diameter of the cable in order to maintain tightness.
- 6] Feed the rain sensor output cable (U) through the right-hand sealant pad.
- 7] Connect the rain sensor output cable (U) to the Soliris io sensor using the **right-hand terminal block marked "RAIN"** (V).
- 8] Screw in the metal tab (W): the cable must be fed under the tab. Attention

The cable sheath must exceed the tab by at least 2 mm.

2.3.3. Activating a rain sensor

Presentation of the operating modes

When it is connected to the Soliris io sensor, the rain sensor can be configured in 2 operating modes: **safety mode or comfort mode**.

- In **safety** mode, the motorised product moves to the safety position if the rain sensor detects rain. This position is determined by the type of motorised product and protects the motorised product from the rain.
- In comfort mode, when the rain sensor detects rain :
 - If it is paired with a Somfy io bi-directional control point (e.g. TaHoma), via Soliris io, follow the instructions for this control point.
 - Otherwise, the motorised product goes to its lower end limit. This mode serves, for example, to protect users from the rain under their awning.

Selecting the operating mode

By default, the mode selection button (X) is set to the **central position**: **the rain sensor is not activated.**

To activate it, select a mode on the Soliris io sensor mounting bracket :

- Turn the mode selection button to C: the rain sensor is activated in comfort mode.
- Turn the mode selection button to S: the rain sensor is activated in safety mode.



Attention

Do not use tools to turn the mode selection button (X).

Fitting the mounting bracket

- 1] Check the presence, good condition and the position of the seal (R) before fitting the cover.
- 2] Screw the front panel (N) of the mounting bracket back on.

Attention

Tighten the screws completely to maintain the tightness of the mounting bracket.

To complete the installation, go to section 2.4.

2.4. FITTING THE PROTECTIVE HOUSING

- 1] Insert the protective housing (G) on the mounting bracket (H) until it clicks into position.
- 2] Fix the protective housing (G) onto the mounting bracket using the screws.
- 3] Connect the cable (B) to the power supply.

2.5. COMMISSIONING

2.5.1. Pairing Soliris io with an io motor or receiver

Prerequisite: The motorised product must already be adjusted and paired with an io-homecontrol[®] control point.











- 1] Switch on the power supply.
- 2] Press the PROG button on the Somfy io control point paired with the motorised product for about 2 s until the motorised product completes an up-and-down movement.
- 3] Briefly press the PROG button on Soliris io.

The motorised product performs another up-and-down movement.

The Soliris io sensor is paired.

To pair the Soliris io sensor with other io motors or receivers, repeat this procedure.

To pair using an io-homecontrol[®] control point from a partner brand or a Somfy io bi-directional control point (e.g. TaHoma), please refer to the relevant guide.

The Soliris io sensor can also be paired with a Somfy io bi-directional control point (e.g. TaHoma), please refer to the relevant guide.

2.5.2. Checking Soliris io pairing

- 1 Position the motorised product at the lower end limit.
- 2] Turn the Wind potentiometer (M) to the *Demo* position. The motorised product moves up and down briefly.
- 3] Turn the anemometer (F) manually to simulate the wind blowing. The motorised product automatically moves to safety position after 2 s.

The Soliris io sensor is paired with this io motor or receiver.

Attention

Never leave the Wind potentiometer set to Demo.

2.5.3. Setting the wind sensitivity threshold

Table of thresholds

1 In addition to the value in km/h and the number of flashes indicating the level set, the corresponding value on the Beaufort scale is given for information purposes.

Thresholds	1	2	3	4	5	6
km/h	28	38	49	61	74	88
Number of flashes	*	**	***	****	****	*****
Beaufort equivalent	Bf 5	Bf 6	Bf 7	Bf 8	Bf 9	Bf 10



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Initial setting

Set the Wind potentiometer (M) to the threshold adapted to the type of motorised product according to the table of thresholds.

After about 2 s, the Wind LED flashes a certain number of times indicating the threshold level set.

Adjusting the threshold

The sensitivity threshold setting can be changed according to the actual weather conditions and requirements.

1] Turn the potentiometer to the right or left until the Wind LED (K) is permanently lit green :

The wind sensor's sensitivity threshold is set according to the current wind value.



- Wind LED off: the sensitivity threshold set has not been reached, the wind is blowing below the set threshold: the motorised product does not move.

1]

- Wind LED permanently lit green: the sensitivity threshold set has been reached, the wind is blowing above the set threshold: the motorised product moves to the safety position.
- 2] Check that the motorised product reacts automatically when the wind blows stronger than the threshold set and that, in these conditions, the motorised product is not damaged.



If the motorised product does not react as desired, adjust the sensitivity threshold :

- Turn the potentiometer towards the (+) sign to increase the sensitivity threshold: a stronger wind causes the motorised product to be moved to the safety position.
- Turn the potentiometer towards the (-) sign to decrease the sensitivity threshold: a weaker wind causes the motorised product to be moved to the safety position.

2.5.4. Setting the sun sensitivity threshold

The sensitivity threshold setting can be changed according to the actual weather conditions and requirements.

Turn the Sun potentiometer until the Sun LED (J) is permanently lit green :

The sun sensor's sensitivity threshold is set according to the current level of sunshine.

- Note :
 - Sun LED off: the sensitivity threshold set has not been reached, the sun is shining below the set threshold: the motorised product does not move.
 - Sun LED permanently lit green: the sensitivity threshold set has been reached, the sun is shining above the set threshold: the motorised product is lowered automatically after a few minutes.

Table of thresholds

① Values are accurate to within ± 3.5 kilolux. The position of the sensor on the location influences the detection.

Thresholds	1	2	3	4	5	6	7
klx	≈1	≈ 8,3	≈ 16,7	≈ 25	≈ 33,3	≈ 41,7	≈ 50
Number of flashes	*	**	***	****	****	**** **	*****

To adjust the sensitivity threshold :

- Turn the potentiometer towards the (+) sign to increase the sensitivity threshold: the sun must shine more brightly to cause the motorized product to lower.
- Turn the potentiometer towards the (-) sign to decrease the sensitivity threshold: the sun must shine less brightly to cause the motorized product to lower.

2.6. TIPS AND ADVICE ON INSTALLATION

2.6.1. Questions about the product ?

Observations	Possible causes	Solutions
	The io motor or receiver memory is full.	Unpair at least one sensor to be able to connect the Soliris io sensor.
The sensor cannot be paired with the io motor or receiver.	The sensor is fixed on a metal part.	Move the sensor to distance it from the metal part.
	The sensor is not within the io motor or receiver's range.	Move the sensor closer to the io motor or receiver.
The motorised product rises once an hour.	The sensor is not operating.	Check the operation of the motorised product with the io control point. Check the operation of the sensor on the motor using the <i>Demo</i> mode. Check the sensor wiring. Replace the sensor if it is faulty; see 2.6.4 .
	The sensor is not within the io motor or receiver's range.	Move the sensor closer to the io motor or receiver.
	The sensor does not work because the wiring is incorrect.	Check the sensor wiring; see 2.3 .
The motorised product	The sensor is not paired with the io motor or receiver.	Pair the sensor with io motor or receiver; see 2.5 .
does not automatically retract when the wind	The wind sensitivity threshold is incorrectly set.	Alter the wind sensitivity threshold; see 2.5.3 .
	External radio equipment is interfering with the radio reception (e.g. Hi-Fi radio headphones).	Turn off all radio equipment nearby.
The motorised product does not react when the sun appears/ disappears.	The sun sensitivity threshold is incorrectly set.	Alter the sun sensitivity threshold; see 2.5 .

2.6.2. Disassembling Soliris io

Attention

- Perform disassembly and wiring operations away from any dust, moisture or foreign bodies to maintain tightness.
- Never remove the cover located under the anemometer.
- 1] Switch off the mains power supply.



2] Loosen the screws located on the protective housing G) and unclip the protective housing (G) from the mounting bracket (H).

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- 3] Unscrew the front panel of the mounting bracket (O) to remove the housing and access the terminal blocks and the mode selector.
- 4] If necessary, loosen the screws fastening the mounting bracket to the wall.

2.6.3. Unpairing Soliris io from an io receiver or motor

The procedure to be followed to unpair Soliris io from an io receiver or motor is identical to the pairing procedure, see **2.5.1**.

2.6.4. Replacing a broken or faulty Soliris io

- Press the PROG button on the Somfy io local control point until the motorised product performs an up-and-down movement (≈ 2 s).
- 2] Press the PROG button (I) on the new Soliris io sensor for **7 seconds** :

The Wind LED (K) on the new Soliris io sensor is lit green after 2 seconds and remains lit for 5 seconds:

All the broken or faulty sensors are deleted from the memory of the io motor(s) or receiver(s).

3] Pair the new Soliris io sensor with the io motor(s) or receiver(s); see 2.5.1.

2.6.5. Returning Soliris io to its original configuration

1] Press the PROG button (I) on Soliris io for 7 seconds :

The Wind LED (K) is lit green after 2 s and remains lit for 7 s :

The original Soliris io settings have been restored and the io bi-directional control points have been deleted.

2] To use Soliris io again, carry out a complete commissioning procedure; see 2.5.





2 s

1]

PROG.





(8)



This product is maintenance-free and no maintenance operations should be performed on it.

3.1. WIND, SUN AND RAIN FUNCTIONS

	Wind function					
		LED	Behaviour of the motorised product			
1		Wind threshold exceeded : the Wind LED is permanently lit green.	Moves to the safety position automatically and remains blocked as long as the threshold is exceeded.			
2		Wind level below the threshold : the Wind LED goes off.	It is then possible to control the motorised product in manual mode after 30 s. All the automatic functions remain locked for another 11 min 30 s.			

Sun fonction					
		LED	Behaviour of the motorised product		
3		Sun sensitivity threshold exceeded : the Sun LED is permanently lit green.	Moves to the sun protection position after 5 min. It is then possible to control the motorised product in manual mode.		
4		Sunshine level below the threshold : the Sun LED goes off.	Moves to the safety position automatically after a waiting time of 20 to 35 min* (except for a roller shutter at its lower end limit: it remains in this position). It is then possible to control the motorised product in manual mode.		

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

	Rain function in safety mode					
		Behaviour of the motorised product				
5		Moves to the safety position automatically and remains blocked as long as the sensor detects rain.				
6		It is then possible to control the motorised product in manual mode after 30 s. All the automatic functions remain locked for another 11 min 30 s.				
		Rain function in comfort mode				
		Behaviour of the motorised product				
7	\bigtriangleup	Moves to the lower end limit (or my) position automatically and remains blocked as long as the sensor detects rain.				
	lillti	If the sensor is paired with a Somfy io bi-directional control point (e.g. TaHoma), the scenario programmed by the user is activated.				

It is then possible to control the motorised product in manual mode and the wind/sun/rain automatic functions are reactivated.

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3.2. BEHAVIOUR OF THE MOTORISED PRODUCT ACCORDING TO CLIMATIC CONDITIONS

3.2.1. Wind and Sun (without rain sensor)

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① Check that the Sun function is activated on the remote control: position the cursor (A/M) on Auto (refer to the remote control guide for more information). When the Sun function is not activated: see conditions without sun.

Climatic conditions	Priority of functions	
	Wind function, see 3.1. (1)	
	Wind function, see 3.1. $\textcircled{1}$	
	Wind function then Sun function, see 3.1. 2 and 3	
P ×	Wind function then Sun function, see 3.1. $\textcircled{2}$ and $\textcircled{4}$	

3.2.2. Wind, Sun and Rain in Safety mode or Comfort mode

0 When a rain sensor is connected to the Soliris io sensor and the mode is selected.

Climatic conditions	Priority of functions in Safety mode	Priority of functions in Comfort mode
	Wind fonction, see 3.1. $\textcircled{1}$	Wind function, see 3.1. $\textcircled{1}$
	Wind function, see 3.1. $\textcircled{1}$	Wind function, see 3.1. $\textcircled{1}$
	Wind and Rain functions, see 3.1. $\textcircled{1}$ and $\textcircled{5}$	Wind function, see 3.1. (1)
	Wind and Rain functions, see 3.1. $\textcircled{1}$ and $\textcircled{5}$	Wind function, see 3.1. (1)
	Sun fonction, see 3.1. (3)	Sun fonction, see 3.1. (3)
₽× m	Rain function, see 3.1. (5)	Rain function, see 3.1. $\widehat{\mathcal{T}}$
$\mathbb{P} \not\cong \mathbb{A}$	Wind and Rain functions then Sun function , see 3.1. (2), (6) and (4)	Wind function then Rain and Sun functions , see 3.1. (2), (8) and (4)
	Rain function, see 3.1. (5)	Rain function, see 3.1. $\widehat{\mathcal{T}}$

3.3. QUESTIONS ABOUT THE PRODUCT ?

Observations	Possible causes	Solutions
The motorised product does not automatically retract when the wind is detected.	External radio equipment is interfering with the radio reception (e.g. Hi-Fi radio headphones).	Turn off all radio equipment nearby.
	The Wind threshold is incorrectly set.	Contact an installer.
The motorised product does not react when the sun appears/ disappears.	The Sun function is not activated on the remote control.	On the remote control, position the cursor (A/M) on Auto - refer to the remote control instructions.
	The sun sensor is dirty or blocked with dust, leaves or snow.	Clean the sun sensor with a dry cloth.
	External radio equipment is interfering with the radio reception (e.g. Hi-Fi radio headphones).	Turn off all radio equipment nearby.
	The sensor is detecting wind and inhibiting the Sun function.	Wait until the sensor has not detected any wind and unlock the motorised product.
The motorised product rises once an hour.	The sensor is not operating.	Contact an installer.

EN 4. TECHNICAL DATA

Radio frequency	868-870 MHz io-homecontrol [®] , two-way Tri-band		
Frequency bands and maximum power used	868.000 MHz - 868.600 MHz e.r.p. <25 mW		
	868.700 MHz - 869.200 MHz e.r.p. <25 mW		
	869 700 MHz - 870 000 MHz ern <25 mW		
	665.16614112 616.66614112 c.n.p. 4251114		
Degree of protection	IP34		
Electrical insulation	Class II		
Power supply	230 V \sim 50 Hz		
Operating temperature	- 20°C to + 50°C		
Dimensions in mm (L x H x I)	235 x 160 x 60 mm		
Maximum number of associated motors	Unlimited		
Type-1 automatic action device.			

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

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 hereby declares that the radio equipment covered by these instructions is in compliance with the requirements of Radio Directive 2014/53/UE and the other essential requirements of the applicable European directives.

The full text of the EU Declaration of Conformity is available at www.somfy.com/ce.

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