

# ALTUS RTS Actuator

## Installation Instructions

Ref:9000841

The ALTUS RTS radio receiver (433,42 Mhz) has to be programmed according to the transmitters. The ALTUS RTS motors are also RT compatible and can be used with a SOLIRIS sensor RTS.

The ALTUS RTS is designed to power an awning or roller shutter. The rated torque and operating time selected has to comply with the features of the driven part. Any other use must be approved by our Technical Dpt. beforehand

# 1 Power supply

## of the ALTUS RTS

- ❑ Power supply : 230 V / 50 Hz.
- ❑ According to the CEI 335-1 norm, you have to install upstream, a double pole isolator with a minimum contact gap of 3 mm eg. a fused spur or socket outlet.
- ❑ Devices with PVC type H05-VVF cables must be inside, except if they are placed inside a conduit.
- ❑ These devices are fitted with a M fixation type : if the device supply cable is damaged, it must be replaced by a special supply cable (choose the reference in the SOMFY catalogue).

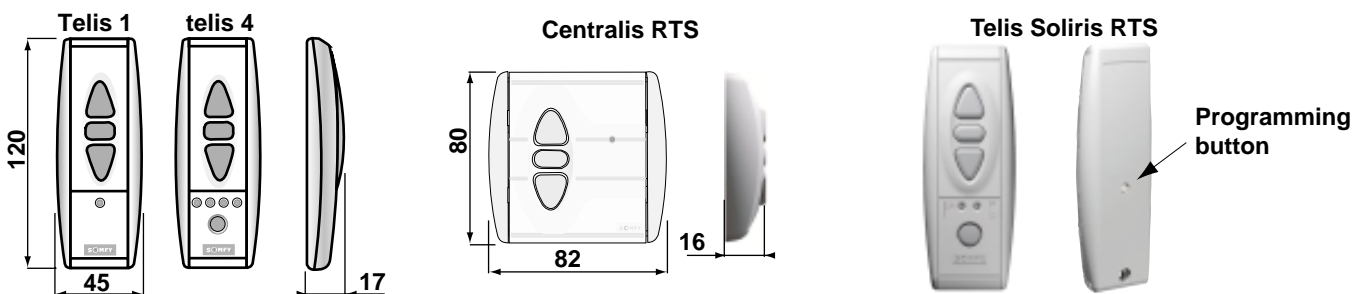
CE (Find in annex the CE declaration of conformity)

# 2 Transmitters

## ALTUS RTS compatible

- ❑ Motor's capacity with Telis, Centralis, Telis Soliris and Inis RT: maximum of 12 controls including 3 sensors

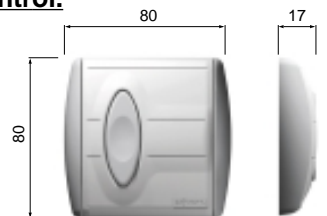
### A Telis 1 RTS & Telis 4 RTS Centralis RTS, and Telis Soliris



- ❑ Range : 20 meters even through two reinforced concrete walls.
- ❑ For programming, please refer to the installation instructions of the relevant control.

### B Inis RT

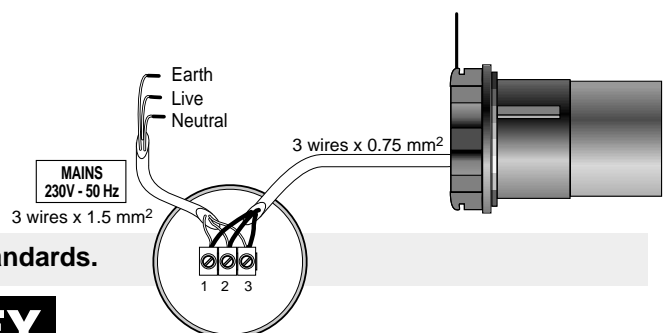
- ❑ Range : 6 metres even through two reinforced concrete walls.
- ❑ 4-step cycle functioning: ▲, stop, ▼, stop,...
- ❑ For programming, please refer to the installation instructions of the relevant control.



# 3 Wiring

## ALTUS RTS

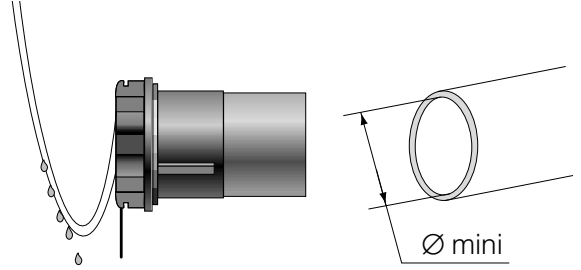
The wiring of the motor must comply with the local standards.



# 4 Recommendations

## for installation

- ❑ Use only SOMFY accessories for the installation (adaptors, brackets, plug ends,...).
- ❑ Use only SOMFY radio controls as shown in section 2.
- ❑ In order to avoid water penetration, make a “drip loop” with the cable.
- ❑ The antenna must not be cut.
- ❑ Ø tube mini for ALTUS 50: 47mm.
- ❑ Ø tube mini for ALTUS 60: 60mm.



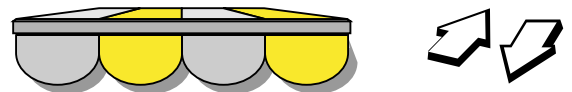
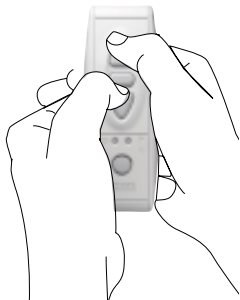
# 5 Factory mode

## Programming of the end limits and rotation direction modification

### A Controlling the ALTUS RTS motor when switching power on for first time

1) mount the motor in the cassette awning and connect it to the mains

2) Push both the UP and DOWN buttons of your control together. The motor is now operated by this remote control.



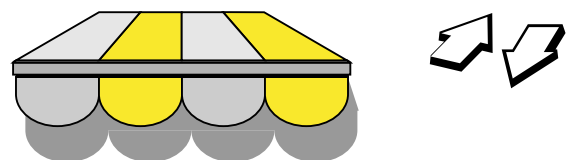
- The awning moves briefly (UP/DOWN) indicating that the transmitter can operate the motor during commissioning, the ALTUS motor will operate only while a direction button is pressed ie: in momentary mode

\* In case of problems with factory mode, turn the power off to the motor in order to reset the transmitter

3) Changing direction of rotation if required

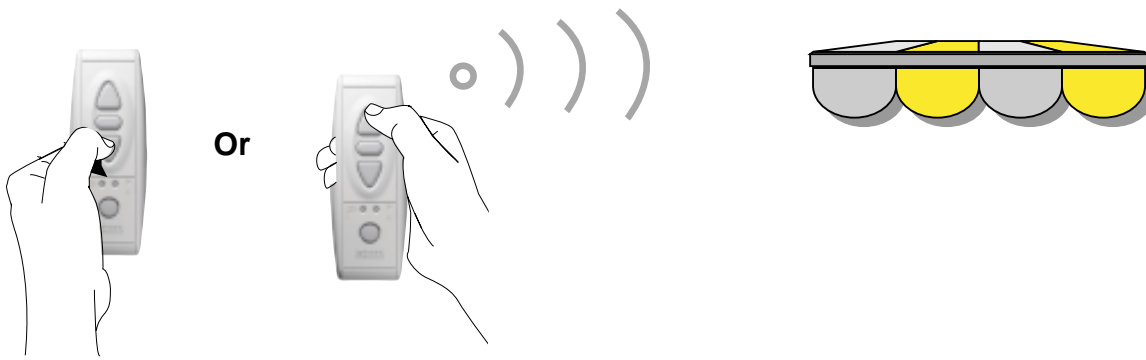


Press the stop button for more than 5 secs



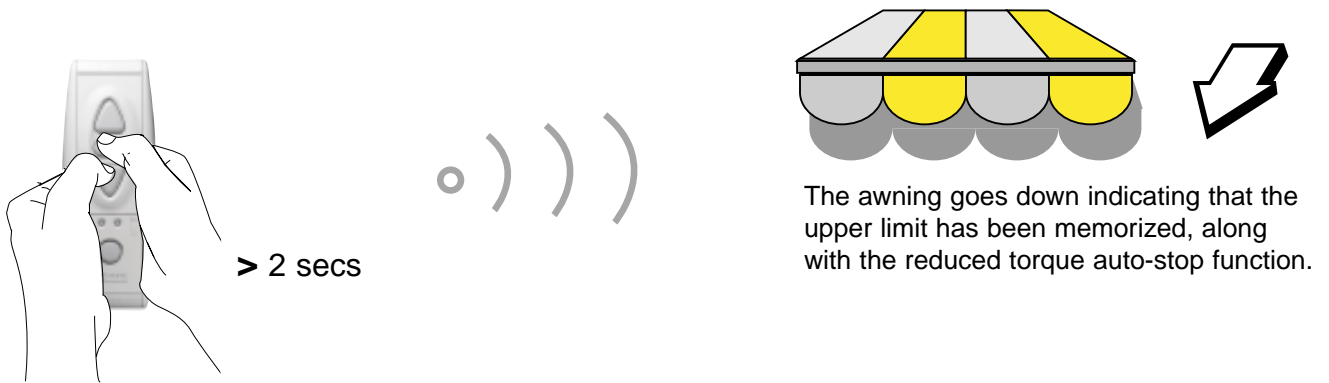
The awning moves briefly (UP/DOWN) indicating that the change has been memorized in the motor

#### 4) Adjust the end product to the up position ,

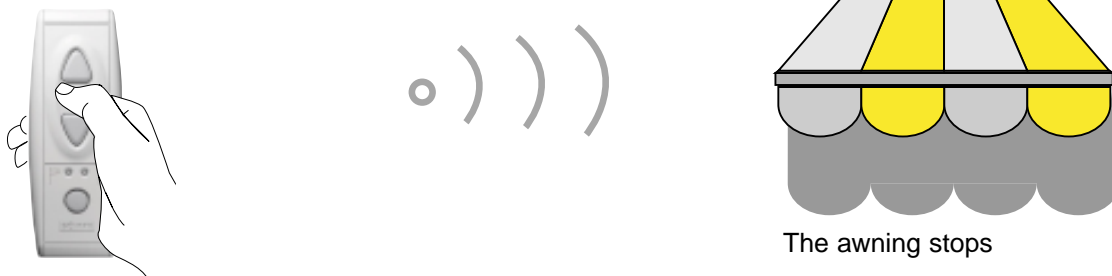


#### 5) Adjust the end product to the Down position

a) Press the DOWN and STOP buttons for more than 2 seconds

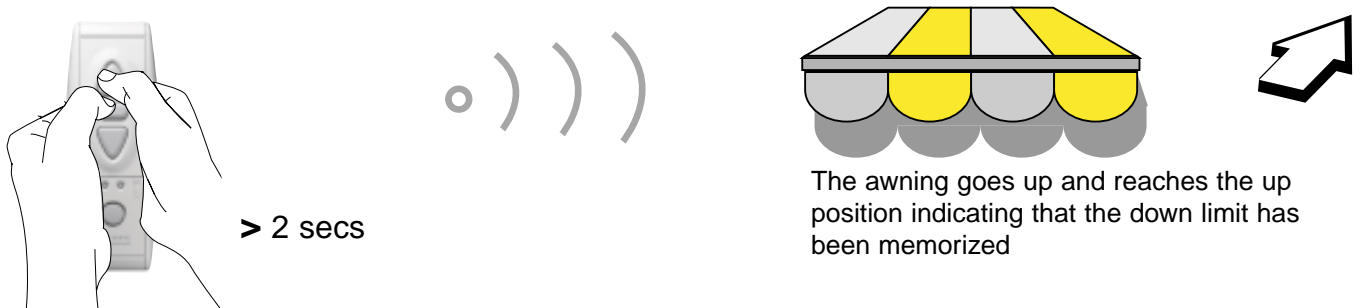


b) Stop the motor by pressing the STOP button



- It is possible to adjust the correct down position using the UP and DOWN buttons. It is in **momentary mode** again

c) Press the UP and STOP buttons for more than 2 seconds.



c) Record the up and down positions by pressing the STOP button for more than 2 seconds



> 2 secs



The ALTUS motor is in momentary mode (holding time)



The awning moves briefly (UP/DOWN) indicating that the up and down position have been memorized in the motor and that the motor is in **learning mode**.

The ALTUS motor runs in each direction while the direction button is being pressed

The motorised awning can now be installed on site. When it is next reconnected to the mains supply, it will automatically activate the **Installer mode**.

# 6 Installer mode

## Setting

### IMPORTANT

If the installation is made up of several ALTUS RTS motors, only one ALTUS RTS motor must be powered during programming. This will avoid interference with the first programming of each ALTUS motor. This means only the motor which is being programmed must be switched on. If several motors are connected to the same power supply please refer to the section 7 for ejection procedure.

1) connect the ALTUS motor to the mains. Check that the ALTUS motor is in **learning mode**. In this case the ALTUS motor runs in each direction only while a direction button is being pressed.

2) Recording the first Transmitter.

a) With an RTS control (TELIS soliris RTS; Centralis RTS; TELIS 1 or 4 RTS).

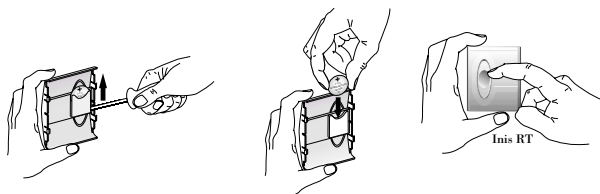


Press on the programming button on the RTS control.



The awning moves briefly (UP/DOWN) indicating that the transmitter has been memorized in the motor.

b) With an INIS RT.



Remove and replace the battery of the INIS RT, then press briefly the push button on the control.



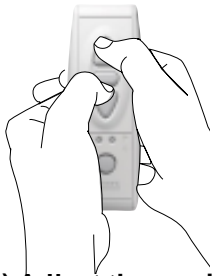
The awning moves briefly (UP/DOWN) indicating that the transmitter has been memorized in the motor.

It is not possible to adjust the ALTUS motor or to have the intermediate position with the INIS RT

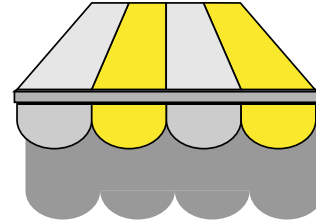
### 3) Readjusting of the up or down limit

a) Go to the up or down position by using the control button.

b) Push simultaneously on the UP and the DOWN button (more than 5 seconds) until the awning begins to move briefly (UP/DOWN).



Press for more than 5 seconds on the UP button and the DOWN button simultaneously .



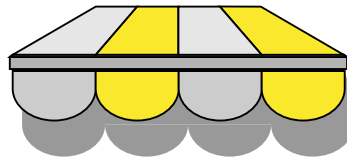
The awning moves briefly (UP/DOWN) indicating that the motor is **in the end limits setting mode.**

c) Adjust the awning in the UP or DOWN direction while the Up or Down key are pressed (holding period).

d) Record the new setting



Press the STOP button for more than 2 secs



The awning moves briefly (UP/DOWN) indicating that the change has been memorized in the motor.

## 7 User mode

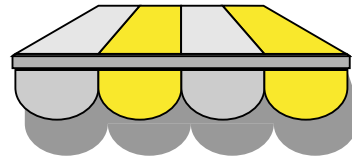
### Functionning

#### 1) User mode

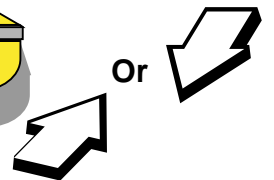


Or

Momentarily press either the UP, DOWN or STOP buttons for the required operation



Or



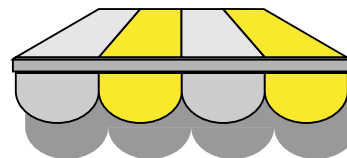
#### 2) Intermediate position

##### Recording the intermediate position.

Adjust the intermediate position, by using the up down and stop button on your control. The ALTUS motor must be in stop position before programming.



Press the STOP button for more than 5 secs



The awning moves briefly (UP/DOWN) indicating that the intermediate position has been memorized in the motor.

##### Using the intermediate position

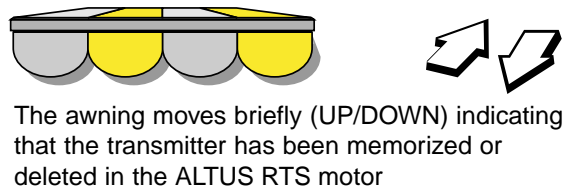
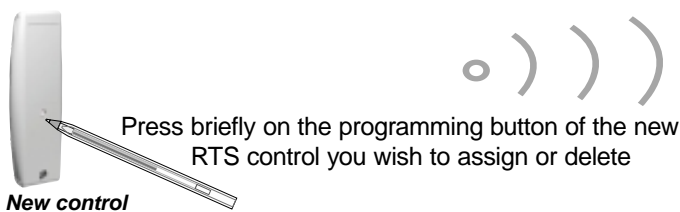
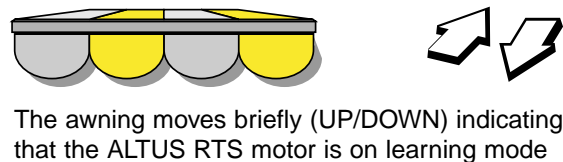
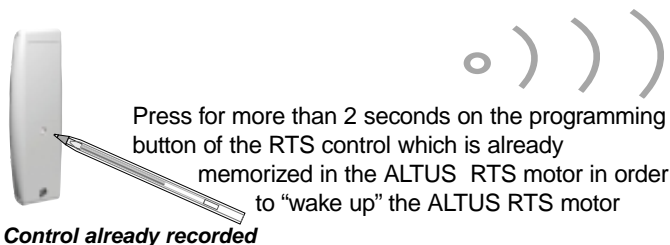
**Manually:** Press the intermediate button (STOP button) when the motor is not in motion.

**Automatically:** when the Soliris sensor registers bright daylight it gives a down command. The awning will move to the intermediate position only if the intermediate position has been programmed.

##### Deleting the intermediate position.

Select the intermediate position. Then press on the STOP button for more than 5 seconds.

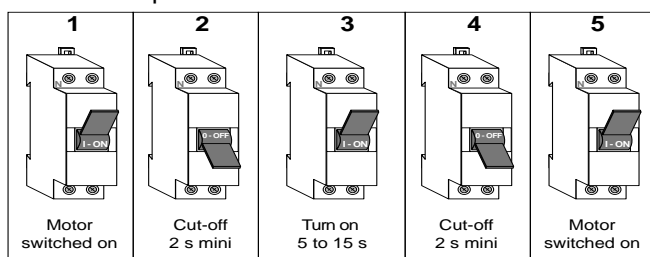
### 3) Add or delete a control in the memory of ALTUS RTS motor



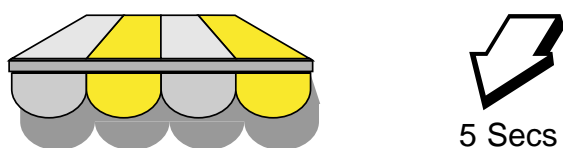
\* For the SOLIRIS Sensor RTS please see the installation guide of the relevant product

### 4) Resetting the motor's memory when a remote control is lost

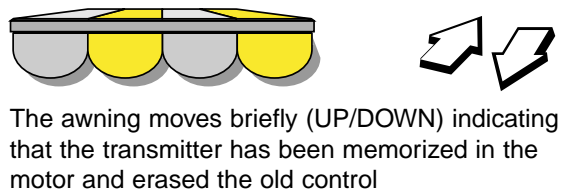
Switch the power off and on twice as shown



Be careful if several motors are connected to the same power supply, those will be also in learning mode. In this case push the UP or DOWN or STOP button of the individual control of motors not concerned by the new setting



**NB the motor cannot be reset if it is already in Factory mode or Installer mode. Refer instead to the relevant sections covering these modes.**



**Note:** If you press for more than 7 seconds you are in **Factory mode**. In this case refer to section 5.

# 8 Trouble shooting

guide

## A Operating problems

### X Nothing works :

- ✓ Check the wiring of the ALTUS RTS.
- ✓ Check if the thermal cut-out has activated and disabled the motor. Wait approx. 15 mins for the motor to cool down.
- ✓ Check that the cable used is correct (3 wires).
- ✓ Check the battery of the transmitter.
- ✓ Check the compatibility of the transmitter. Only the RTS or RT are suitable.
- ✓ Check that the transmitter has been properly recorded in the ALTUS RTS' memory.
- ✓ Check that the antenna has not been cut short.
- ✓ Check for any other possible source of radio interference.

## B The system stops too early

### X Motion problems :

- ✓ Check that the limit switch crown rotates when the tube turns.
- ✓ Check that the actuator drive wheel is securely fastened to the tube.
- ✓ Check that the end limits are properly set.

# INSTALLATION *guide*



## inteo *EOLIS sensor RTS*

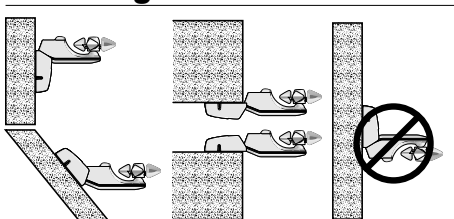
The **EOLIS sensor RTS** is a radio sensor for awnings with a protection against wind damage.

The wind threshold can be set directly on the **EOLIS sensor RTS**.

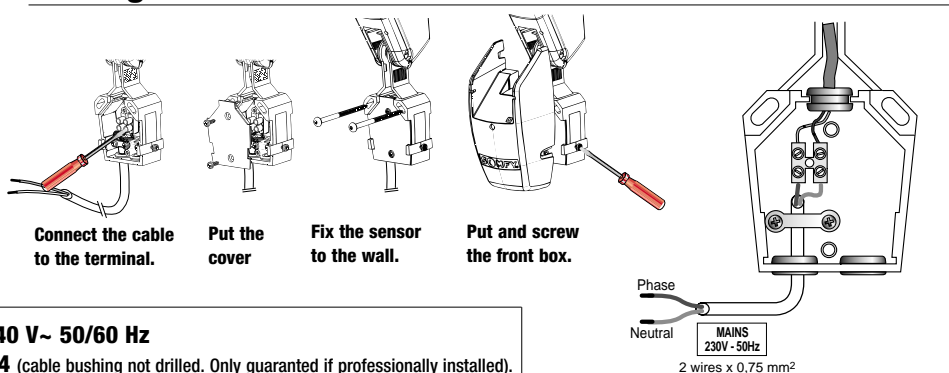
The **EOLIS sensor RTS** has to be used with the **OREA RTS** and **ALTUS RTS** motors.

## 1 Installation:

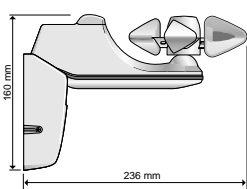
### Mounting



### Cabling



### Characteristics



**Mains supply : 220-240 V~ 50/60 Hz**

**Protection index : IP34** (cable bushing not drilled. Only guaranteed if professionally installed).

**Operating temperature : -20°C to +50°C**

**Class II product once installed**

CE 0165

Hereby, SOMFY, declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity is available at the web address [www.somfy.com/Heading CE](http://www.somfy.com/Heading CE)

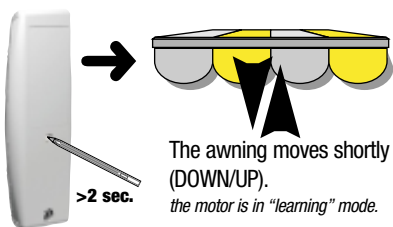
## 2 Programming:

The motor must be in its learning mode to record an **EOLIS sensor RTS**.

Up to three **EOLIS sensors RTS** can be memorized in a motor and one **EOLIS sensor RTS** can be memorized in several motors.

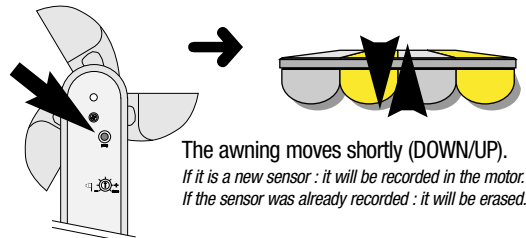
### Enter the "learning" mode

Press **more than 2 seconds** on the programming button of a RTS control which is already memorized in the motor.  
(please refer to the installation guide of the concerned motor).



### Record or delete a sensor

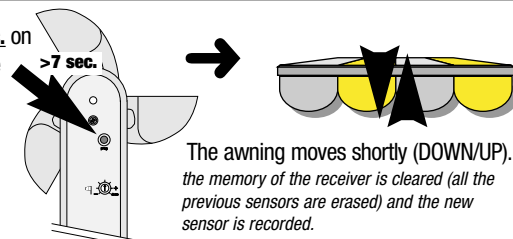
Press **briefly** on the "prog" button of the **EOLIS sensor RTS**.



The awning moves shortly (DOWN/UP).  
If it is a new sensor : it will be recorded in the motor.  
If the sensor was already recorded : it will be erased.

### Erase all the sensors and record a new one

Press **more than 7 sec.** on the "prog" button of the new **EOLIS sensor RTS**.



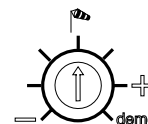
The awning moves shortly (DOWN/UP).  
the memory of the receiver is cleared (all the previous sensors are erased) and the new sensor is recorded.

**SOMFY**

# 3 Fonctionning:

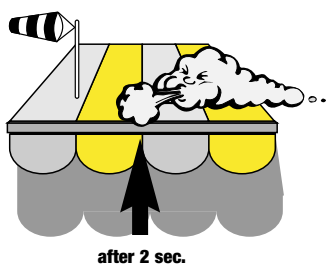
The **EOLIS sensor RTS** is able to protect an awning regarding the **WIND** by controlling the **OREA RTS** or the **ALTUS RTS** motors.

The **WIND** threshold can be adjusted by a potentiometer accommodate wind speed between 10 to 50 Km/h.



## WIND function

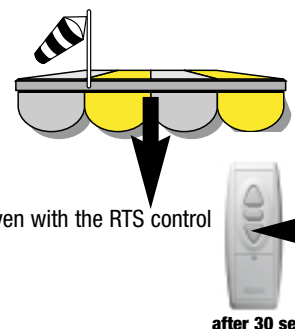
When the wind speed exceeds the threshold set by the EOLIS sensor RTS, an UP order is given to the awning after 2 sec.



As long as the measured wind speed is higher than the adjusted threshold, any order is inhibited.

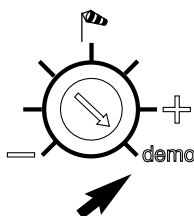


When the wind speed falls below the threshold setting, an order can be given with the RTS control after 30 sec..



## DEMO mode

In this mode all delay times are reduced to ease installation and the wind threshold is 10Km/h. The mode is selected by turning the wind potentiometer clockwise to the limit.



## Temporisations (with OREA and ALTUS)

	Normal mode	Demo mode
WIND appearing timing	2 sec.	2 sec.
WIND disappearing timing	30 sec. 12 min.	15 sec.

# INSTALLATION *guide*



## inteo *SOLIRIS sensor RTS*

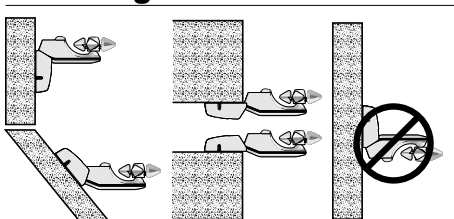
The **SOLIRIS sensor RTS** is a radio sensor for awnings with an automatic control according to the daylight intensity and protection against wind damage.

The wind and sun thresholds can be set directly on the **SOLIRIS sensor RTS**.

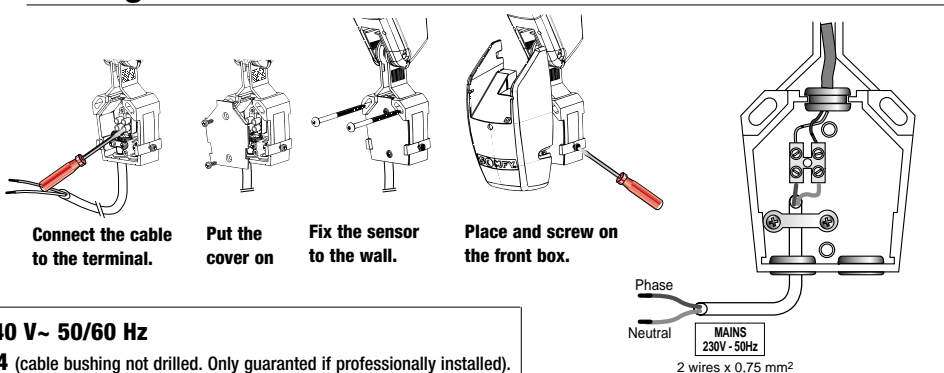
The **SOLIRIS sensor RTS** must be used with the **OREA RTS** and **ALTUS RTS** motors.

## 1 Installation:

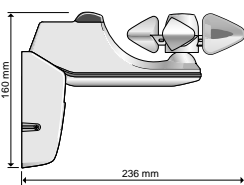
### Mounting



### Cabling



### Characteristics



**Mains supply : 220-240 V~ 50/60 Hz**

**Protection index : IP34** (cable bushing not drilled. Only guaranteed if professionally installed).

**Operating temperature : -20°C to +50°C**

**Class II product once installed**

**CE 0165**

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Phase  
Neutral  
MAINS  
230V - 50Hz  
2 wires x 0,75 mm<sup>2</sup>

## 2 Programming:

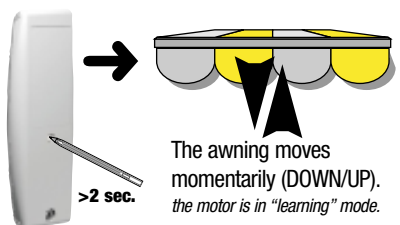
The motor must be in learning mode to record a **SOLIRIS sensor RTS**.

Up to three **SOLIRIS sensors RTS** can be memorized in one motor and one **SOLIRIS sensor RTS** can be memorized in several motors.

### Enter the "learning" mode

Press for **more than 2 seconds** on the programming button of an RTS control which is already memorized in the motor.

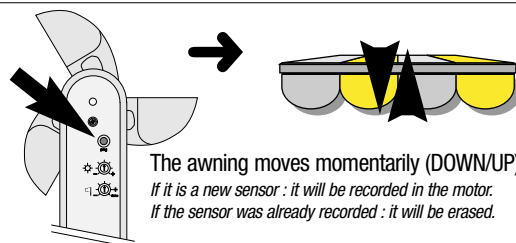
*(please refer to the installation guide of the relevant motor).*



The awning moves momentarily (DOWN/UP).  
the motor is in "learning" mode.

### Record or delete a sensor

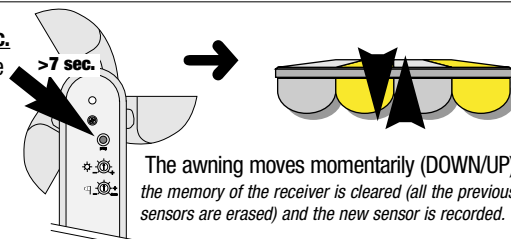
Press **briefly** on the "prog" button of the **SOLIRIS sensor RTS**.



The awning moves momentarily (DOWN/UP).  
*If it is a new sensor : it will be recorded in the motor.  
If the sensor was already recorded : it will be erased.*

### Erase all the sensors and record a new one

Press for **more than 7 sec.** on the "prog" button of the new **SOLIRIS sensor RTS**.



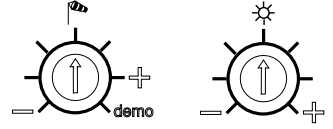
The awning moves momentarily (DOWN/UP).  
*the memory of the receiver is cleared (all the previous sensors are erased) and the new sensor is recorded.*

**SOMFY**

# 3 Fonctionning:

The **SOLIRIS sensor RTS** is able to control and protect an awning according to the sun and wind conditions by controlling the **OREA RTS** or the **ALTUS RTS** motors.

The **WIND** and **SUN** thresholds can be adjusted by two potentiometers, one for wind speed and one for daylight intensity.  
Between 10 to 50 Km/h for the **WIND** and between 0 to 50 klux for the **SUN**.

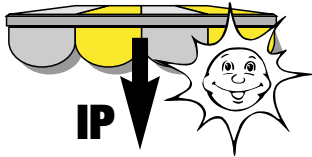


By using the **TELIS SOLIRIS RTS** remote control, it is possible to configure the functioning of the receiver (wind only or wind/sun). Please refer to the **TELIS SOLIRIS RTS** installation guide.

➔ On the **ALTUS RTS** and **OREA RTS** motors, a short **UP/DOWN** movement of the awning indicates the modification of the configuration.

## SUN function

When the intensity of the daylight exceeds the threshold set by the **SOLIRIS sensor RTS**, a **DOWN** order is sent to the awning after 2 mins.



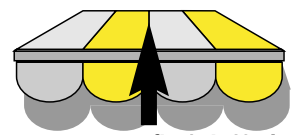
The awning goes to the intermediate position (see the motor installation guide) or to its down end limit position if no intermediate position has been memorised.

When the daylight level falls below the threshold setting, a variable time delay from 15 to 30 minutes is activated (depending on the sun presence duration).



This feature avoids frequent movements of the awning on cloudy days.

After this time delay, an **UP** order is given to the awning.



Any manual command given during this cycle will override the automatic operation. The **SOLIRIS sensor RTS** will not then function automatically until the daylight exceeds the threshold limit again.

## WIND function

When the wind speed exceeds the threshold set by the **SOLIRIS sensor RTS**, an **UP** order is given to the awning after 2 secs.

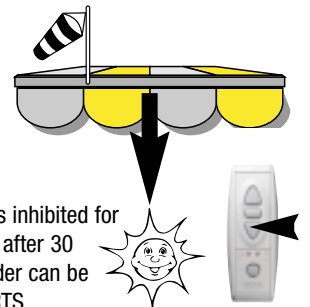


after 2 secs.

As long as the measured wind speed is higher than the adjusted threshold, all commands are inhibited (manual control or automatic control).



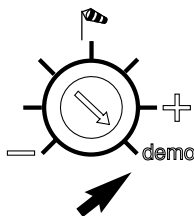
When the wind speed falls below the threshold setting, the **SUN** function remains inhibited for 12 minutes, but after 30 seconds, an order can be given with the **RTS** control.



after 12 min. after 30 sec.

## DEMO mode

In this mode all delay times are reduced to ease installation and the wind threshold is 10Km/h. The mode is selected by turning the wind potentiometer clockwise to the limit.



## Timings (with OREA RTS and ALTUS RTS)

	Normal mode	Demo mode
SUN appearing timing	2 min.	10 sec.
SUN disappearing timing	15/30 min.	15 sec.
WIND appearing timing	2 sec.	2 sec.
WIND disappearing timing	30 sec. 12 min.	15 sec.