SOLIRIS RTS SENSOR
Programming Guide

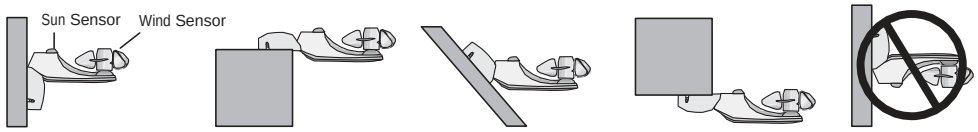
24V SOLIRIS RTS SENSOR KIT
CAT NO. 6301051
(includes transformer, not shown)

- The SOLIRIS RTS sensor is a radio sun & wind sensor for awnings.
- The wind and sun thresholds can be set directly on the SOLIRIS RTS sensor.
- The SOLIRIS RTS sensor is compatible with the LT RTS CMO and ALTUS RTS motors only.

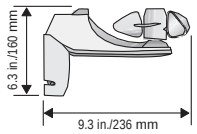
Power supply : 24V AC/DC
Rated Current : 25 mA at 24V DC
The SOLIRIS RTS sensor must be supplied by a class 2 transformer

Operating temperature : -4°F to 122°F/-20°C to +50°C

1 Installation



Dimensions

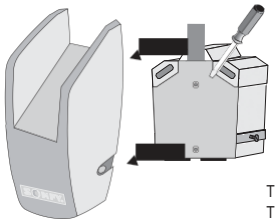


2 Wiring

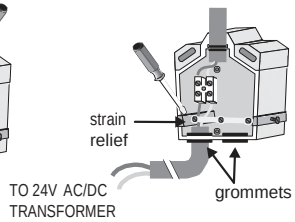
WARNING: For the SOLIRIS RTS SENSOR to function properly, the transmitter which is memorized into the motor's receiver, must be configured correctly. The DOWN button MUST correspond to DOWN on the end product. In the case of an awning, it will open or extend the awning. If the UP button extends the awning, the wind sensor will also extend the awning during windy conditions. THIS IS DANGEROUS! Damage and injury could occur. Do not proceed until proper operation of the transmitter is verified. Please refer to the installation instructions of the relevant motor to change the direction if necessary.

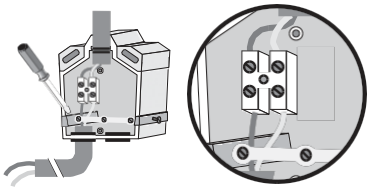
A. Power input to the sensor is not polarized, but turn off the power and fully discharge the transformer before making final connections.
B. The cable distance between the power supply and the sensor must not exceed 164 feet.

1. Remove Cover and unscrew plate over wiring compartment

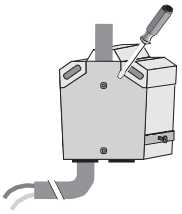


2. Loosen the strain relief plate and guide the power supply wires through the black grommet into terminal block.

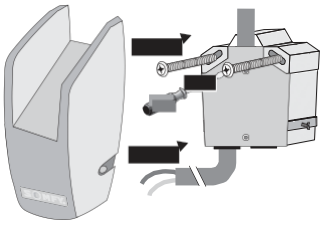




3. Connect the cable leads to the terminals
- Terminal block is removable for easier connections, and the input power is not polarized.



4. Replace wire compartment cover



5. Attach the sensor to the wall. Replace front cover and secure with screws provided

ALUMALINE AZ INC

Local: 480-557-7855 Fax: 480-557-7859

Toll Free: 877-557-7855

sales@alumalineaz.com www.alumalineaz.com

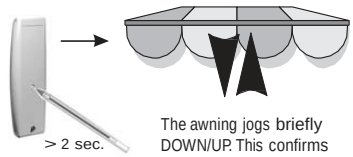
SOLIRIS RTS SENSOR
Programming Guide

3 Programming

- The motor must be in programming mode to record a SOLIRIS RTS sensor.
- One SOLIRIS RTS sensor can be memorized into several motors.
- It is not recommended to memorize more than 1 SOLIRIS RTS sensor into the motor's memory.

A. To Enter the "Programming mode"

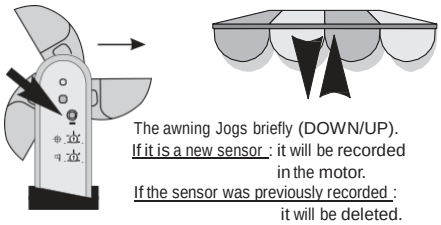
Activate the receiver's memory by pushing (for more than 2 seconds) the programming button of a transmitter already recorded in the motor's memory.



The awning jogs briefly DOWN/UP. This confirms the motor is in programming mode.

B. To Record or delete a sensor

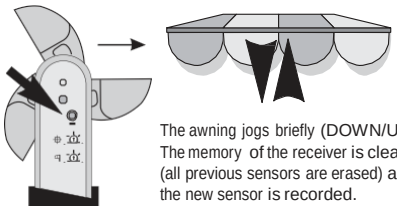
Press briefly on the programming button of the SOLIRIS RTS sensor



The awning Jogs briefly (DOWN/UP).
If it is a new sensor : it will be recorded in the motor.
If the sensor was previously recorded : it will be deleted.

C. To delete all the sensors and record a new one

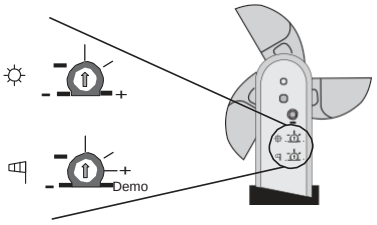
Press for more than 7 sec. on the "programming" button of the new SOLIRIS RTS sensor.



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

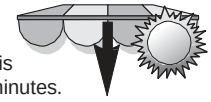
4 Operation

- The SOLIRIS RTS sensor controls and provides a measure of protection for a retractable awning according to the sun and wind conditions.
  The WIND and SUN thresholds can be adjusted by two potentiometers, one for wind speed and the other for daylight intensity.
- The adjustment range is between 6 - 31 miles per hour for the WIND and between 0 to 50 kilolux for the SUN
- By using the TELIS SOLIRIS RTS transmitter, it is possible to configure the functioning of the receiver (wind only or wind/sun). Please refer to the TELIS SOLIRIS RTS operating instructions.
  A short UP/DOWN movement of the awning indicates the modification of the sensor settings.



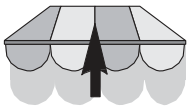
SUN Function

IP
(Intermediate Position)



When the intensity of the daylight exceeds the threshold set by the SOLIRIS RTS sensor, a DOWN order is sent to the awning after 2 minutes.
The awning goes to the intermediate position IP, (see the motor installation instructions) or to its down end limit position if no intermediate position has been memorized.

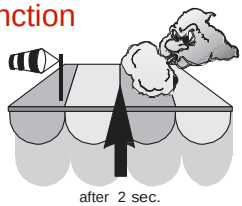
When the daylight level falls below the threshold setting, a variable time delay from 15 to 30 minutes is activated (depending on the sun prescence duration).
This feature avoids frequent movements of the awning on cloudy days.



after 15 to 30 min.

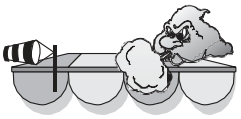
After this time delay, an UP order is given to the awning.
Any manual command given during this cycle will override the automatic operation. The SOLIRIS RTS sensor will not then function automatically until the daylight exceeds the threshold limit again.

WIND Function

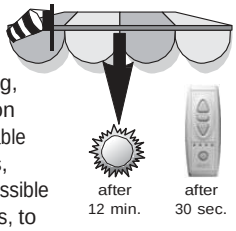


after 2 sec.

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

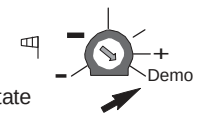


As long as the measured wind speed is higher than the adjusted threshold, all commands are prevented from operating. (manual control or automatic control).



When the wind speed falls below the threshold setting, the SUN function remains inoperable for 12 minutes, although it is possible after 30 seconds, to give an order with the RTS Transmitter.

DEMO Mode



The mode is selected by turning the wind potentiometer clockwise to the limit.
In this mode all time delays are reduced to facilitate installation. The wind threshold is 6 mph.

The change of setting "In" or "Out" of the Demo Mode is confirmed with a brief Jog of the motor. This function can be used to confirm that the sensor is communicating with the motor's receiver.

NOTE: Do not leave RTS sensor in demo mode when installation is completed.

TIME DELAYS

This is the elapsed time required for the motor to respond automatically or manually (using the transmitter) to the change in sun or wind conditions.

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

* It is possible after 30 sec. to give a down order with the RTS transmitter