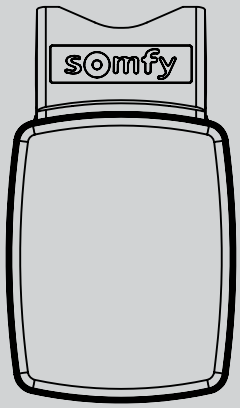
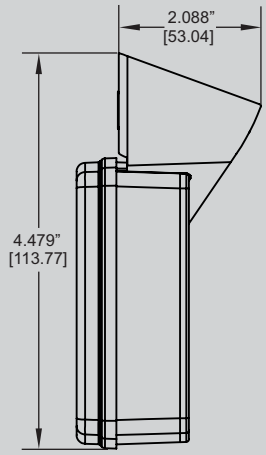
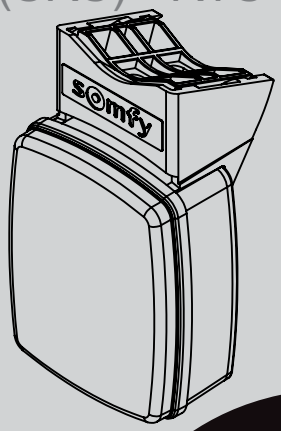
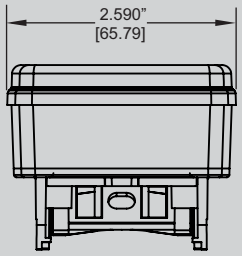
Instructions Somfy Solar Rain Sensor (SRS) - RTS









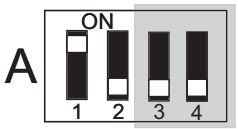
IMPORTANT - Read the entire instructions and ensure the unit is charged before starting installation (see installation section)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions
- This device may not cause harmful interference and
- This device must accept any interference received, including interference that may cause undesired operation

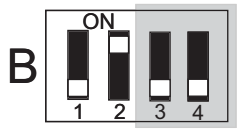
Warning! Changes or modifications not expressly approved by the manufacturer could void the users authority to operate the equipment.

Mode and Threshold Selection - Awning

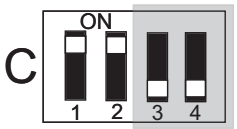
1 - Open the hatch by pressing the latch toward the hatch and pulling outward (Fig 1)
2 - Inside the hatch you will see the Rain and Sun threshold adjustment pots, the DEMO and Program Buttons and the Mode Dip Switches (Fig 2).
3 - Do not remove the sticker over dip switches 3 and 4. Only Dip switches 1 and 2 will be used to select the Mode for normal Awning use.
4 - Select the desired mode using dip switches 1 and 2. Dips 3 and 4 should remain off.



Awning Rain



Awning Sun



Awning Rain & Sun

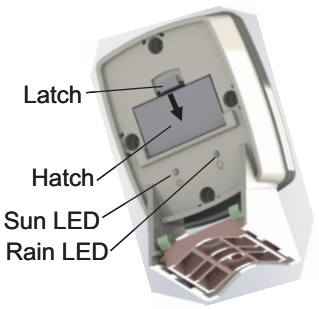


Fig 1

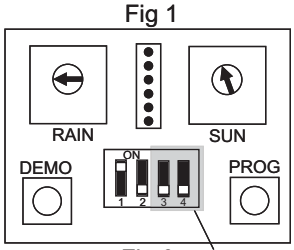


Fig 2

5 - **In Awning Rain mode (A)**, the SRS will run the awning in when the rain rate exceeds the set rain threshold.
6 - **In Awning Sun mode* (B)**, the SRS will run the awning in after about 15-30 min with the sun below the set sun threshold and out after about 2 min with the sun above the threshold.
7 - **In Awning Rain & Sun mode* (C)**, the rain and sun functions are both active but a rain event will override the sun function until the rain rate falls below the set threshold for 5 min.
8 - The Sun and Rain threshold adjustment pots can be turned 280 deg from the minimum setting to the maximum. (Fig 3)
9 - The Rain threshold (Fig 4) can be set from:
    Min (fully CCW) = Very Light Rain/Heavy Mist/Heavy Condensation
    Max (fully CW) = Very Heavy Rain.
10 - The Sun threshold (Fig 5) can be set from
    Min (fully CCW) = approx 0.5klux - Facing sun with heavy cloud cover
    Max (Fully CW) = approx 55klux - Facing direct summer sun with no cloud cover
11- LED indicators, The rain and sun LEDs will blink when conditions are above the threshold, continuously in DEMO mode and every 5 sec in normal mode.
Note; In order for the SRS to activate a motor in response to sun, the sun function of the motor must be enabled. To enable this feature, a Soliris Transmitter must be used and therefore programmed to the motor.

Fig 3

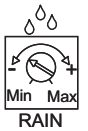


Fig 4

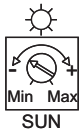
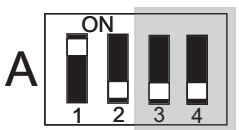


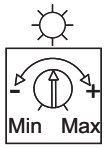
Fig 5

Factory Default settings:



Awning Rain

RAIN
Approx 9:00
Light Rain

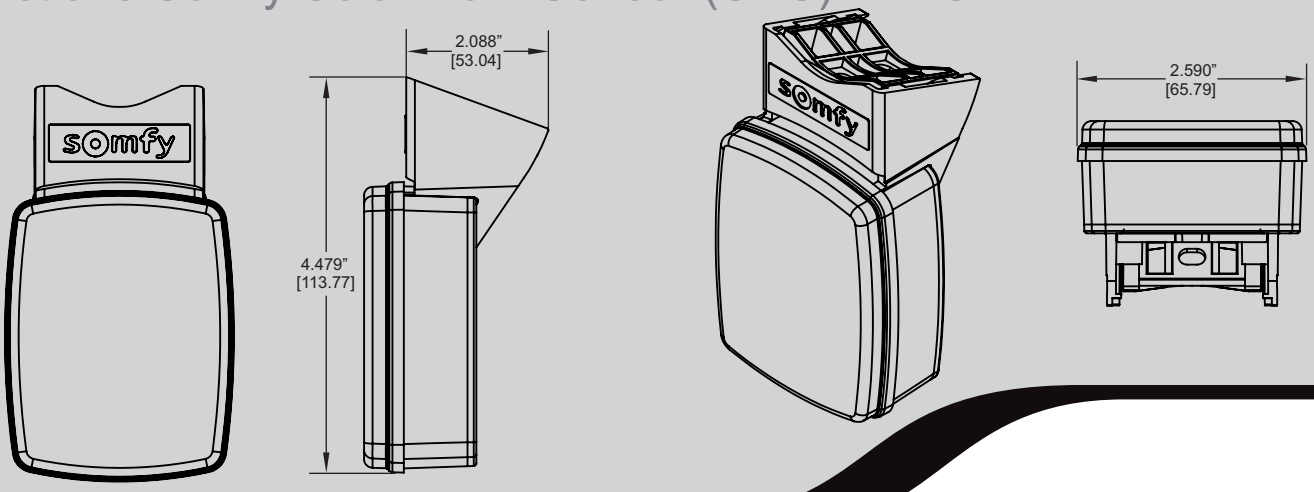


SUN
Approx 12:00
Facing Sun, Light Cloud Cover

Important: If the RTS Rain and Sun sensor is removed from a job site it must be deleted from the motor memory. (see next section)

HOME MOTION by somfy

Instructions Somfy Solar Rain Sensor (SRS) - RTS



IMPORTANT - Read the entire instructions and ensure the unit is charged before starting installation (see installation section)

Mode and Threshold Selection - Shutter/Screen (S/S)

1 - Open the hatch by pressing the latch toward the hatch and pulling outward (Fig 1)
2 - Inside the hatch you will see the Rain and Sun threshold adjustment pots, the DEMO and Program Buttons and the Mode Dip Switches (Fig 2).
3 - Remove the sticker over dip switches 3 and 4.
4 - Select the desired mode using dip switches 2, 3 and 4. Dip switch 1 should remain off.

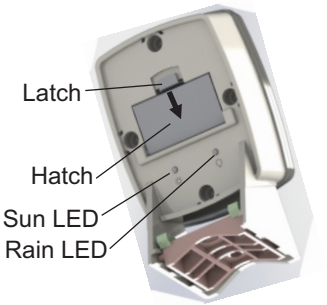
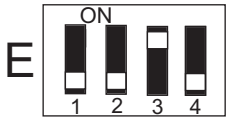
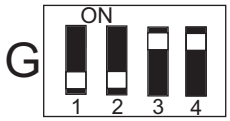


Fig 1



Shutter/Screen Rain

S/S Rain & Sun



S/S Rain & Auto

5 - **In S/S Rain mode (E)**, the SRS will send a down command when the rain rate exceeds the set rain threshold and will not send another rain command until the rain falls below the rain threshold for 5 min and then goes above the threshold again..
6 - **In S/S Rain & Sun mode (F)**, Rain functions as per Mode E. A rain event will lock out the sun function until it falls below the threshold for 5 min. Sun light detected over the sun threshold for 2 min will cause a down (out) command. Sunlight under the threshold for 15min will cause an up (in) command
7 - **In S/S Rain & Auto mode (G)**, Rain functions as per Mode E. When the rain falls below the rain threshold for 5 min continuous, the sensor will send an automatic up command.
8 - The Sun and Rain threshold adjustment pots can be turned 280 deg from the minimum setting to the maximum. (Fig 3)
9 - The Rain threshold (Fig 4) can be set from:
Min (fully CCW) = Very Light Rain/Heavy Mist/Heavy Condensation
Max (fully CW) = Very Heavy Rain.
10 - The Sun threshold (Fig 5) can be set from
Min (fully CCW) = approx 0.5klux - Facing sun with heavy cloud cover
Max (Fully CW) = approx 55klux - Facing direct summer sun with no cloud cover
11- LED indicators, The rain and sun LEDs will blink when conditions are above the threshold, continuously in DEMO mode and every 5 sec in normal mode.

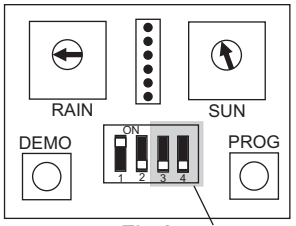


Fig 2

Fig 3

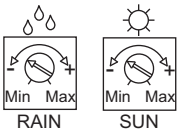
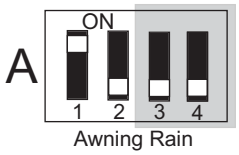


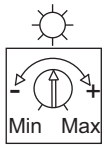
Fig 4 Fig 5

Factory Default settings:



Awning Rain

RAIN
Approx 9:00
Light Rain



SUN
Approx 12:00
Facing Sun, Light Cloud Cover

Important: If the RTS Rain and Sun sensor is removed from a job site it must be deleted from the motor memory. (see next section)

HOME MOTION by somfy

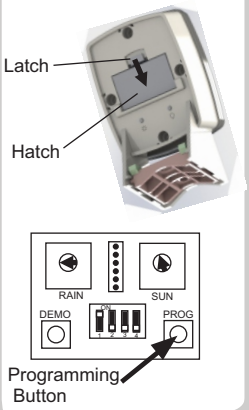
Programming

***Before programming ensure the sensor is set to the desired mode (Mode selection - Step 4 on page 1) and ensure the unit is charged (see below)**

Adding the sensor
1- Put the motor into learning mode by pressing the programming button on an already programmed transmitter until the motor jogs.
2- Open the hatch on the sensor and press the programming button. The motor will jog.

Deleting the sensor
Repeat steps 1 and 2 above.

Step 2



Demo mode

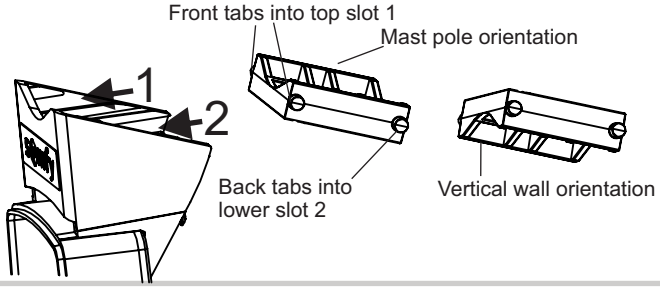
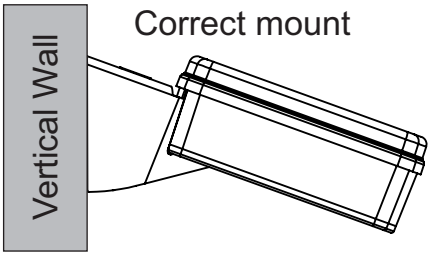
- Pressing the DEMO button will put the sensor into DEMO mode for 2 min.
- The sensor will exit DEMO mode after 2 min or if the DEMO button is pressed again.

ENTER DEMO Mode Indication - Motor jogs and the sun and rain LEDs will blink alternating
EXIT DEMO Mode Indication - Motor jogs and the sun and rain LEDs blink together

SENSOR TIME DELAYS

	DEMO Mode	Normal Mode
Rain present	0 sec (UP - Locked)	0 sec (UP - Unlocked)
Rain absent	3 sec (Unlocked)	5 min (Unlocked)
Sun present	10 sec (DN)	2 min (DN)
Sun absent	15 sec (UP)	15-30 min (UP)

-When the rain or sun condition passes a set threshold for the delay time listed above the command (XX) is given. Rain present locks out sun functions and normal transmitters.
- In DEMO mode the LEDs will blink when conditions are above the threshold. In normal mode the LEDs will blink every 5 sec if conditions are above the threshold.

Installation

- **Initial Charge** - The Somfy Solar Rain Sensor (SRS) RTS is solar powered. Before installation ensure the unit has an initial charge by placing the unit with the solar cell facing direct sun light. The initial charge will take about 10 min in direct outdoor sun light.
- **Mounting Bracket** - The mounting is released by pushing the bracket clips gently towards the main body of the control. The bracket can be used to mount the SRS to a vertical wall using screws or to a 2 inch mast pole using zip ties. For a vertical wall the bracket is placed flat face towards the wall. For a mast pole mount the curved face is mounted to the pole.
- Mounting Location - The Sensor should be mounted in a clear unobstructed location with the sensor facing the sun in the same facing as the awning.
The sensor must be mounted with clear exposure to the rain in the same facing as the awning.
The sensor must be mounted with the clear cover facing upward as shown (correct mount), with the sensor face at an angle. This allows excess moisture to run off and clear debris from the face.
NOTE - If the sensor is removed from a job site, it must be deleted from the motor's memory.