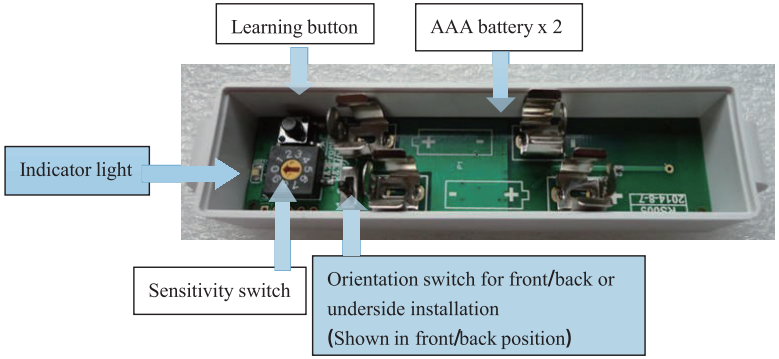
RS005 Motion Sensor Instructions

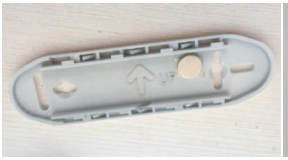
Note: can not be used in conjunction with a sun/wind sensor

❶ Techanicaldata:

- ➢Battery: 2 x AAA
- ➢Protection Index: IP44
- ➢Frequency: 433.92MHz
- ➢Working current: 8mA
- ➢Temperature: -20℃ to +60℃

❷ The Parts:





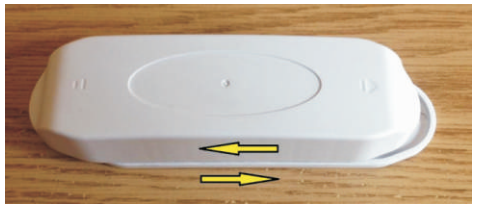
Mounting Base

Channel fixings

Inner Casing
(Contains the circuit board)

Outer Cover
(Contains the inner casing and clips onto the mounting base)

❸ Opening the unit



Lever clip open with provided screwdriver

❹ Installation:

Firstly, find a suitable position on the front bar of the folding arm awning to house the motion sensor. This position should not obstruct the operation of the awning and should ideally allow the motion sensor to be secured to the hollow channel and be close to either end. Mounting near the centre will affect the quality of operation. The device can be mounted on either the front, back or underside of the bar as circumstances allow.

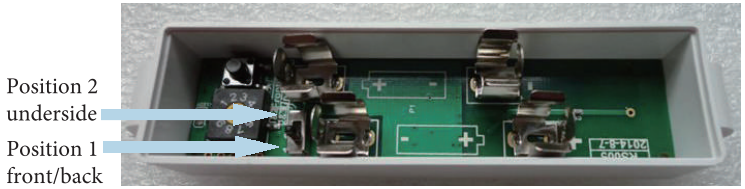
Underside Mount

Back Mount

NOTE: Make sure to select the correct switch position on the circuit board for the mounting position used. This is a crucial step, as incorrect switch position will render the unit unreliable or inoperable.

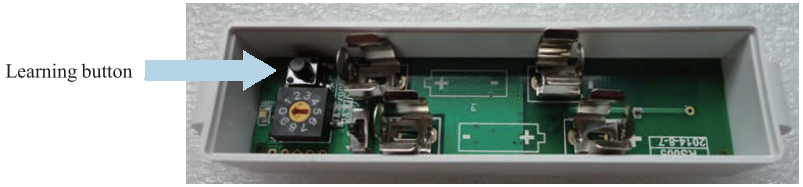
❺ Setup:

Select the correct position on the orientation switch (see image below)
NOTE: If mounted to the front or back of the leading bar then put switch into position 1.
If installed on the underside of the leading bar, then put switch into position 2.



❻ Install Batteries:

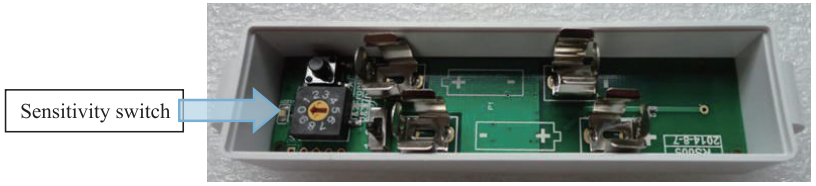
Install 2 x AAA Alkaline batteries in the battery holders. The LED will flash to confirm the batteries are correctly installed. If not, check if the batteries' + and – are correct.



❼ Assigning the Motion Sensor to the motor:

Pick up the awnings remote and make sure it is on the correct channel for the awning if it's a multi-channel remote.

Press remote's up and down simultaniously then release, then press stop 8 times, the motor will jiggle after the 8th press.
Within 10 seconds of getting the jiggle, press and quickly release the "Learning Button" on the motion sensor, the motor will jiggle again, motion sensor's LED will flash once. The motion sensor is now paired to the motor.
Note: If the LED flashes several times, you have held the learning button for too long and sent a delete command instead. Repeat the step above and make sure to only give the learning button a quick press and release.



❽ Thres hold Adjustment

Using the supplied screwdriver, select a sensitivity between 1-9. 1 being the most sensitive and 9 being the least sensitive. A setting of 0 is a user defined sensitivity setting as explained on the next page.

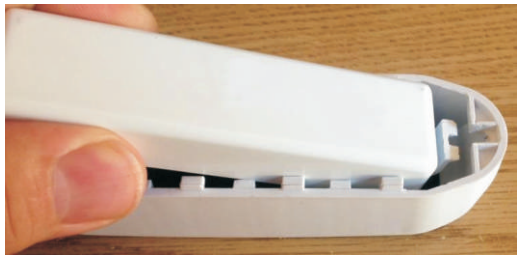
❾ Pre-Defined Threshold Adjustment

Select the desired sensitivity (4－7 will suit most awnings but always test once installation is complete to be sure) .

Awning shaking angle	Sensitivity level
USER DEFINED	0
±1.1°	1
±1.4°	2
±1.9°	3
±2.5°	4
±3.3°	5
±4.2°	6
±5.0°	7
±5.8°	8
±6.6°	9

Example: Sensitivity Level4 = the front bar is being shaken by + or –2.5 degree sofflevel.

Next insert the clip end of the inner casing.



Then press the other end down and it will click in.

Place the cover over the mounting plate and click into place with a small sideways push.

❿ Testing the Threshold Settings

Ensure remote is on the correct channel for the awning if multi-channel. Test the awning for correct direction from its remote. The top button **must** close the awning and the bottom button **must** open it. If not, change the direction of operation and reset the motor limits as per the motors instructions. This step is crucial as the Alpha motion sensor will only work this way and damage to the awning may occur if this is not correct. Shake the awning up and down to simulate the level of wind you wish to protect the awning against. If the awning does not retract after 6 seconds of shaking then remove the cover and set the sensitivity switch to a lower level and try again until satisfied. Also double check the orientation terminals are set properly for the mounting position.

Do not test by shaking the sensor in your hand as it will not function unless it is attached to the mounting base.

⓫ Setting the User Defined Threshold (if desired)

1) Switch the sensitivity switch to 0.
2) Re-assemble the motion sensor and connect to the awning
3) After installation and the awning is still, it is in the personalized threshold setting mode.
4) Shake the awning manually to simulate the maximum level of wind vibration allowed until the awing closes automatically. If the awning closes satisfactorily on testing afterwards, it means the motion sensor is set correctly. If the awning does not close, set the sensitivity to a lower level of movement using the Personalized Threshold Resetting instructions below and test again.

⓬ Personalized Threshold Resetting

Open the awning with its remote, remove the outer cover from the base and wait for 5s, Slide the outer cover back onto the base and follow the above operations 3)&4)

Operationof the Motion Sensor:

Once the motion sensor is installed and tested, it will issue the motor with an "IN" command whenever the awning shakes to the set sensitivity level for 6 seconds.

At this time the motion sensor will lock out control of the motor for 30 seconds. The awning can be controlled again after this 30 second period.

Deleting the Motion Sensor:

Hold motion sensor's learning button until the LED starts flashing, release the learning button. The LED will flash for a total of 6 times, the motor will jiggle once, the motion sensor is now deleted and has no control of the motor. Note: Using the "Delete all remotes" sequence from the remote control will also delete the motion sensor along with the other controllers.

Safety function:

When connected to the "Cassette Awning" motor, the motion sensor will send a signal to the motor several times an hour to let the motor know it's still protecting the awning. If the motor does not receive this signal for a period of one hour after being opened, it will close automatically as a protective measure. This is a sign that there is either a fault with the motion sensor or far more likely, the batteries have gone flat. If this happens, replace the 2 x AAA alkaline batteries right away.

This safety function will not work with the "radio" motors , although the motion sensor will control this motor so long as the motion sensor is functioning.

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.