RS005 MOTION SENSOR GUIDE p1

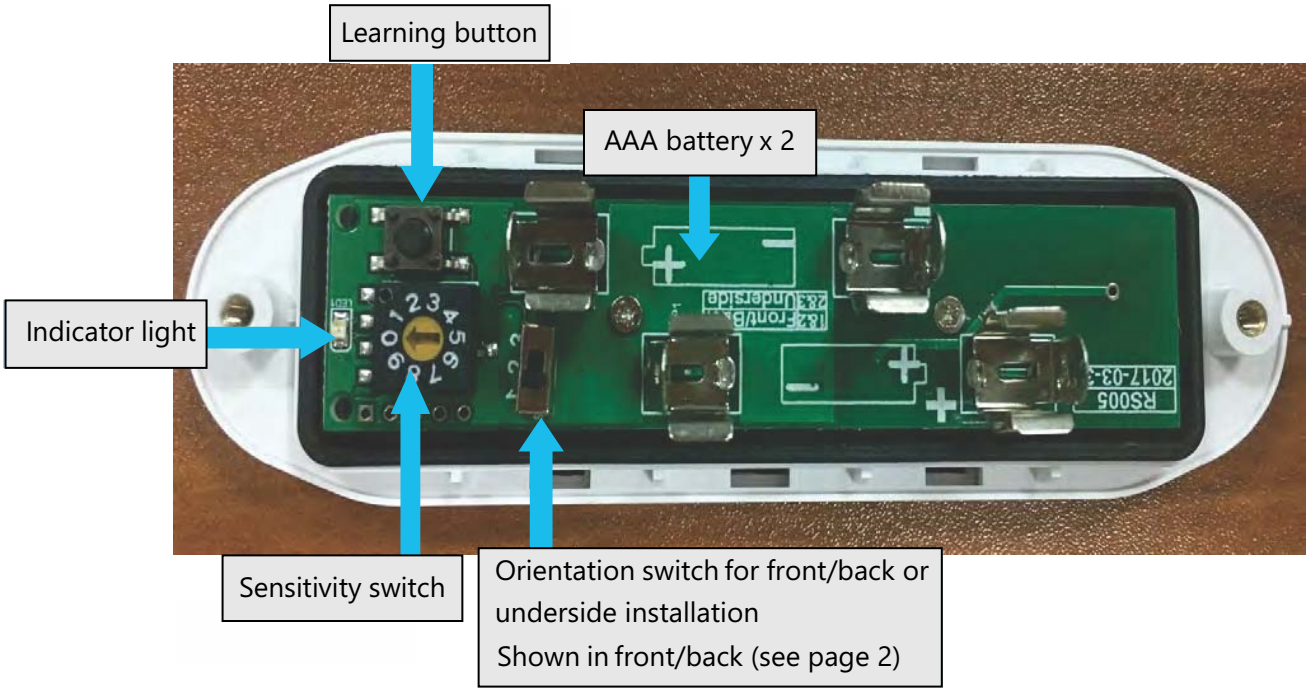
ALPHA SUPPORT PHONE (02) 4355 4775

Cannot be used in conjunction with a sun/wind sensor.

1. TECHNICAL DATA

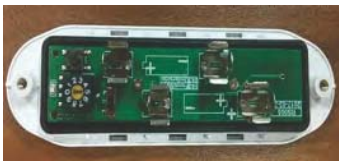
Battery: 2 x AAA
Protection Index: IP44
Frequency: 433.92MHz
Working current: 8mA
Temperature: -20℃ to +60℃

2. THE PARTS



Mounting Base

Channel fixings

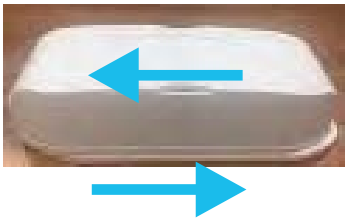


Circuit Board
Contains clips onto the mounting base

Outer Cover

3. INSTALLATION

Opening the unit



Slide in different directions to seperate from mounting base

Remove two screws by screwdriver

Lift outer cover from circuit board

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 center 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

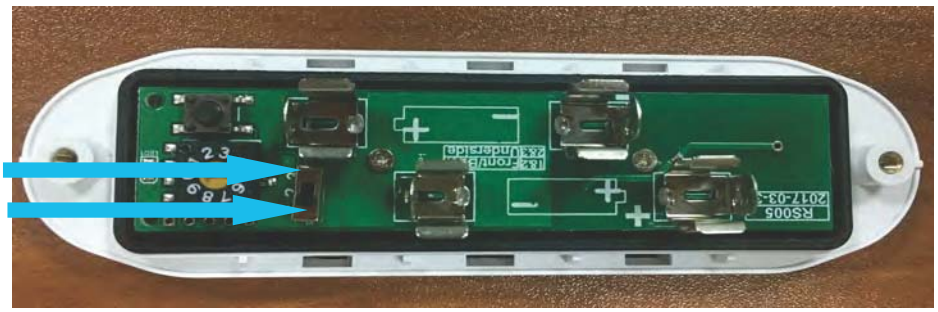
NOTE: Make sure to select the correct switch position on the circuit board for the mounting position used. This is a crucial step, as incorrect switch position will render the unit unreliable or inoperable.

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.

Position 2
underside

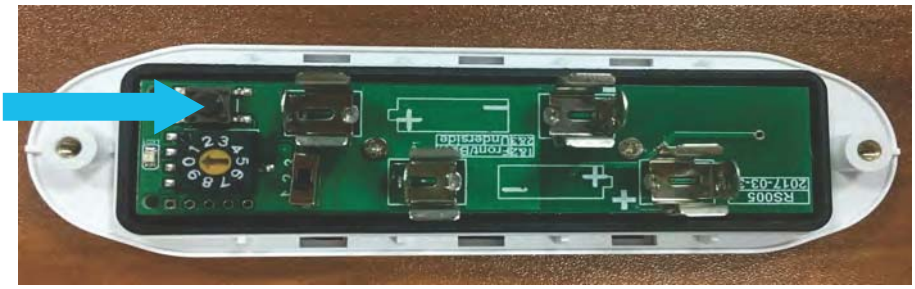
Position 1
front/back



INSTALL BATTERIES

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

Learning button



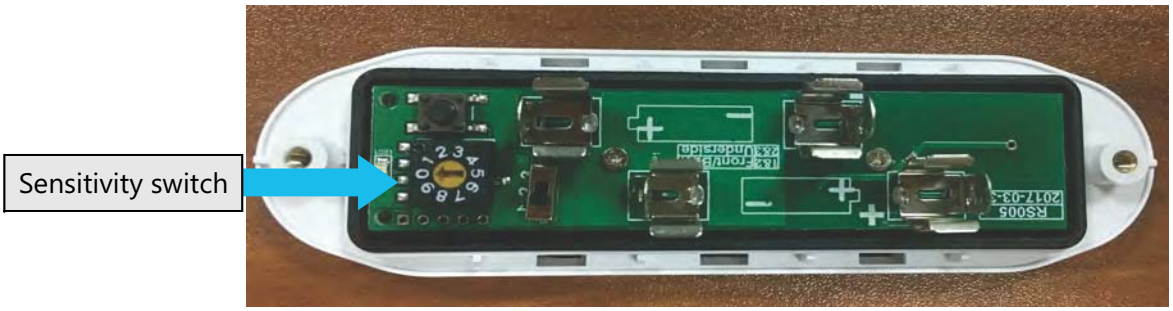
4. ASSIGNING THE MOTION SENSOR TO THE MOTOR

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 buttons simultaneously 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.

5. THRESHOLD 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.



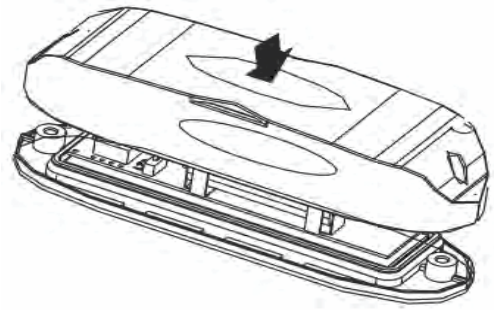
6. PRE-DEFINED THRESHOLD ADJUSTMENT

Select the desired sensitivity (2–3 will suit most awnings but always test once installation is complete to be sure).

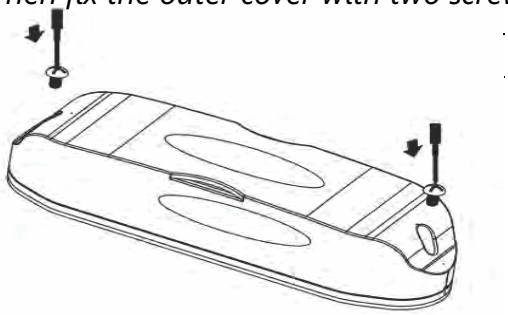
Example: Sensitivity Level 4 = the front bar is being shaken by + or – 2.5 degrees off level. These angles are variable depending on the size of the awning and position of the sensor, so ensure you are satisfied with the setting by testing afterwards.

Awning shaking angle	Sensitivity level
No function	0 **(Do not use this setting)**
±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

Next close circuit by outer cover



Then fix the outer cover with two screws



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

7. 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.

8. OPERATION OF 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.

9. 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. Often it is best to use this function as the method described above does not work on all motor types.

10. SAFETY FUNCTION

When connected to the Alpha Cassette awning or Universal 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 Alpha "Universal" motors, although the motion sensor will control this motor so long as the motion sensor is functioning.