



Primrose Awnings - Wind, Sun & Rain Sensor Instructions

Contents

Before connecting the sensor please read the instructions carefully. You may wish to consult a qualified electrician before installing the electrical parts.

Contents:

- 1 x Wind, Sun & Rain Sensor (all 3 sensors are included in one device)
- 1 x Remote Control Receiver Box
- 2 x Remote Hand Held "Zappers"

Receiver Box:

- Mains supply: AC200V -AC240V
- Operating temperature: -10 C to 50 C
- Motor control receiver RF 433MHz
- Amp: 10A

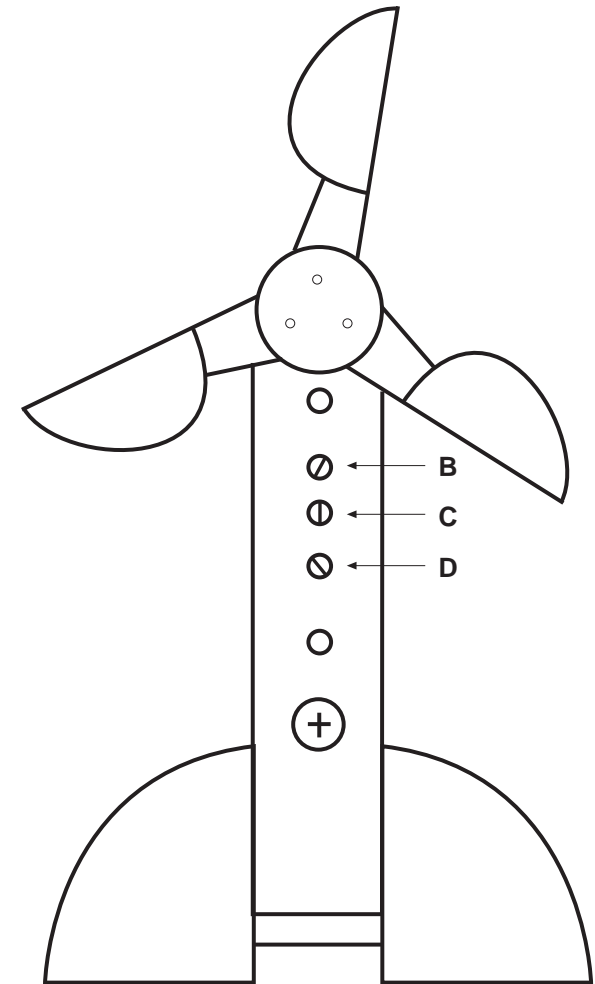
Wind, Sun & Rain Sensor:

- Matched receiver AC230
- Sensor Voltage: DC 12V
- Sensor Working Temp: -40 C to 60 C

Sensor functions:

- B: Wind Control
- C: Sun Control
- D: Rain Control

Sensor





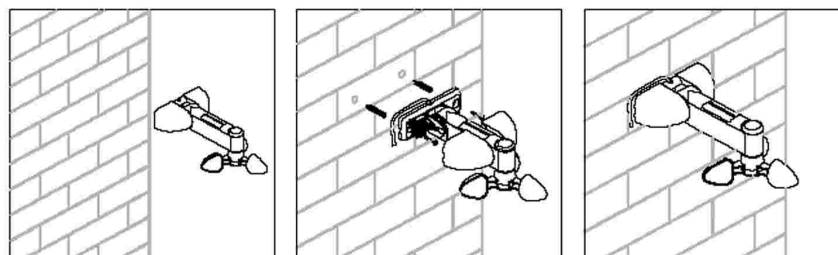
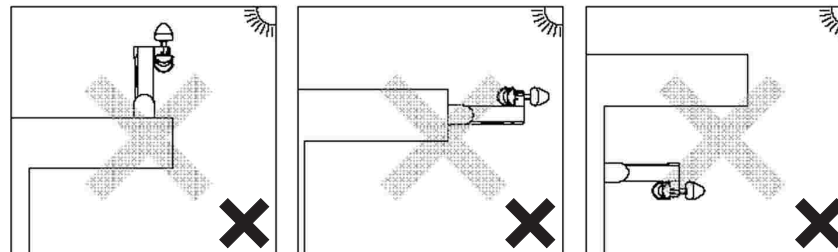
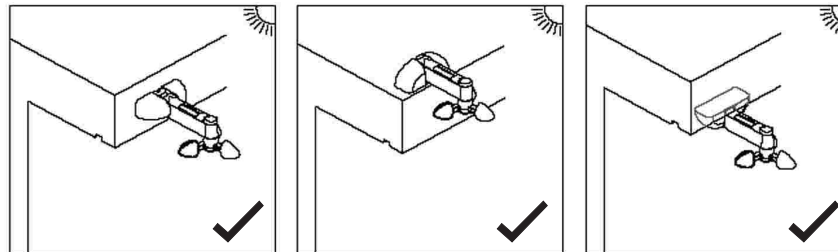
Step 1: Mounting the sensor

For the sensor to operate effectively the sensor must be positioned in an area that is fully exposed to the wind, sun & rain.
(As per diagram)

Purchased sensor as an add-on:

If the sensor was purchased as an add-on for your electric awning please discard the original receiver box and remotes which came with your electric awning (not required anymore).

Install the receiver box which comes with wind, sun & rain sensor



Installation

Mounting of the receiver box:

1. Install the receiver with the cable entry pointing downwards to avoid water infiltration.
2. Do not install the receiver near a metallic obstruction (it could affect the radio transmission)
3. Minimum distance between the receiver and the floor: 150cm
4. Minimum distance between the receiver and the roof: 30cm
5. Minimum distance between the receiver and the w/s/r sensor: 30cm (Ideally, have it far away from the receiver box to avoid interference)

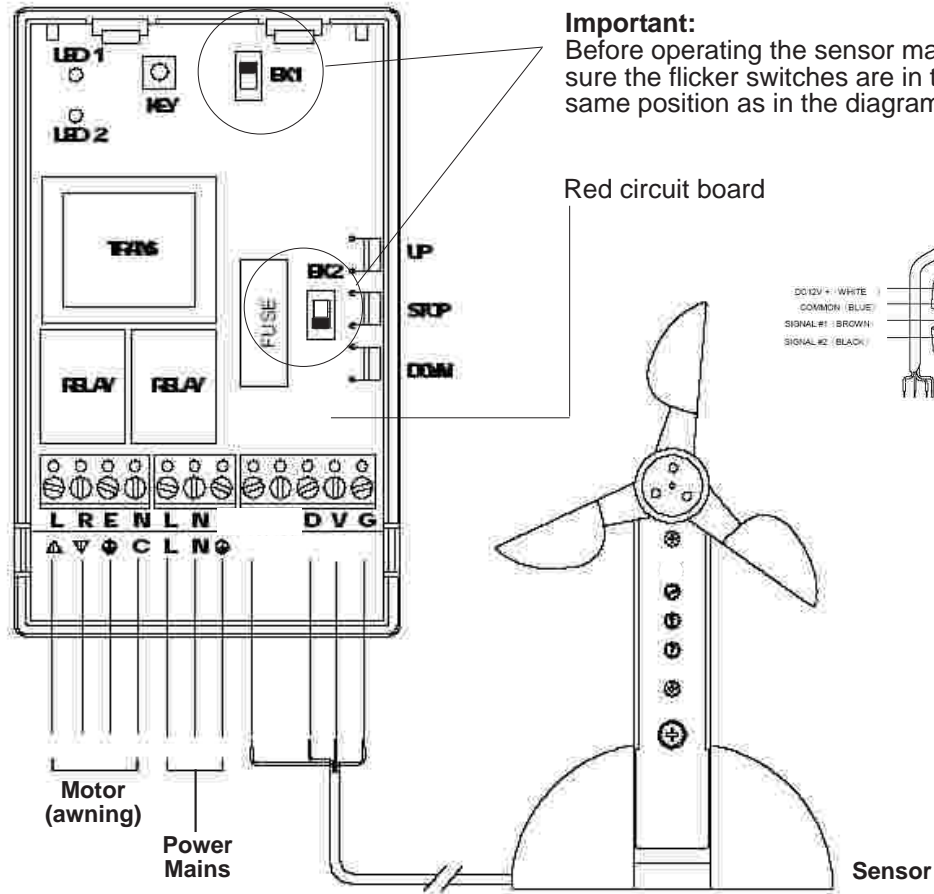
Cabling of the receiver:

Cabling arrangements are shown in the diagram on page 3.

1. Disconnect the mains supply before carrying out any work.
2. Be careful to avoid static electricity which could damage some electrical components.



Step 2: Connections



Wiring

Motor (Awning): Wires:

L=Direction #1	(Brown)
R=Direction #2	(Black)
E=Earth	(Green & Yellow)
N=Neutral	(Blue)

Power Mains:

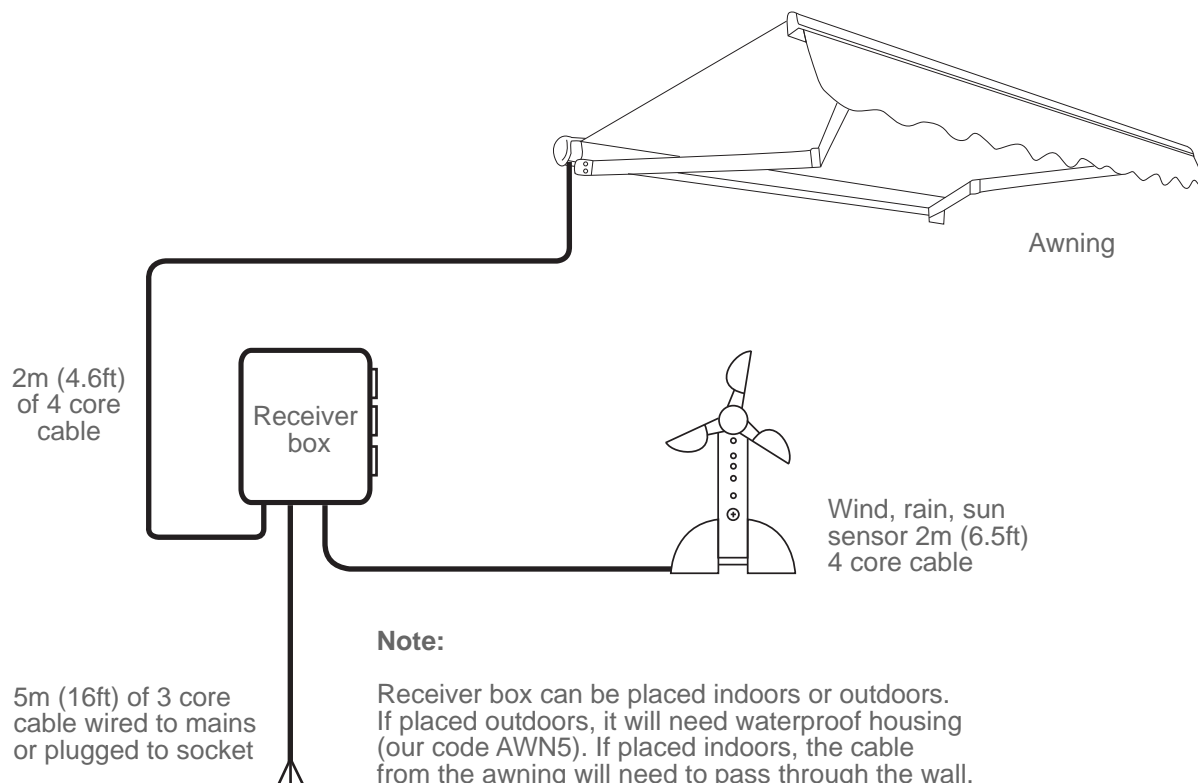
L= AC Live	(Brown)
N= AC Neutral	(Blue)
E= AC Earth	(Green & Yellow)

Sensor:

U=Open	(Black)
D=Close	(Brown)
V=DC 12v Power	(White)
G=DC12v General	(Blue)



Step 3: Connecting sensor to awning



Handheld Zappers

The remote control receiver box should be positioned indoors. It is possible to place the receiver box outside as long as its placed in a waterproof box (available on our website, code: Awn5)

Before using the handheld zappers:

Firstly, ensure that the awning is properly installed by pressing the side buttons on the receiver box. The awning should project (top button) and retract (bottom button)

If the awning doesnt project or retract, remove the cover lid of the receiver box and check to make sure the wires are connected correctly. Refer to back page 3.

Any problems, refer to page 5, Q & A 2,3,4.

Handheld zappers doesn't activate:

The handheld zappers won't work until you have programmed the receiver box with the handheld zappers, please refer to page 5.



Step 4: Programming remote zapper

To operate the awning the remote control zapper must be synchronised with the receiver box.

Program Setting:

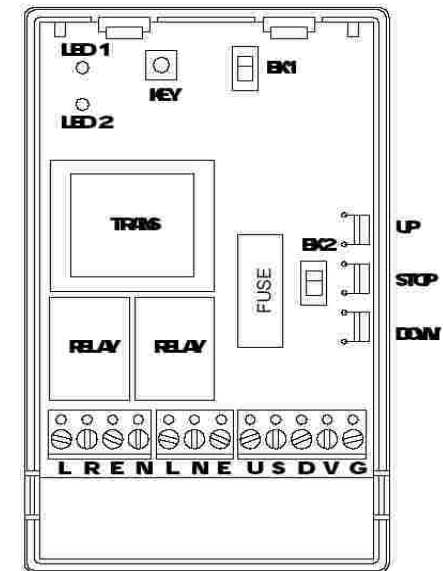
1. Remove the cover lid of the receiver box. (Before continuing please read steps 2 & 3 as they need to be performed immediately). Press the setting button **KEY**(see diagram) the **LED2** will start to flash (for approx 10 seconds)
2. While the **LED2** is flashing; press the program setting button on the rear of the remote control zapper using a ball point pen. **Press once.**
3. Now press the **UP** button front of the on the remote control zapper to confirm the zappers are correctly synchronised. If the zapper doesn't work please repeat above.

You can now adjust your desired sensor settings. Refer to page 6.

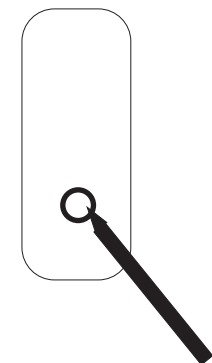
Replacing the battery:

1. Open the back board of the zapper with the screwdriver.
2. Replace the used battery with a new one, (12V/23A)
3. Close the back board of the zapper with the screwdriver.

Adjustment



Back of
remote
control
zapper





Step 5: Sensor adjustments

The sensor will detect wind, rain levels and sun levels. The awning can be set to CLOSE in high wind & rain and to OPEN when the sun comes out. The sensitivity settings can be tailored to your requirements.

The awning will be retracted once the sensor detects your desired settings and you can adjust the settings on the side of the sensor with three main automatic options. If you don't want to use the sun or rain sensor, set these devices to their highest settings (Towards the +)

Wind Sensor:

The wind sensor measures the speed of the wind. When the speed exceeds the threshold set, the sensor will send a command to the receiver. The receiver will drive the motor to operate CLOSE function, protecting your awning against wind damage.

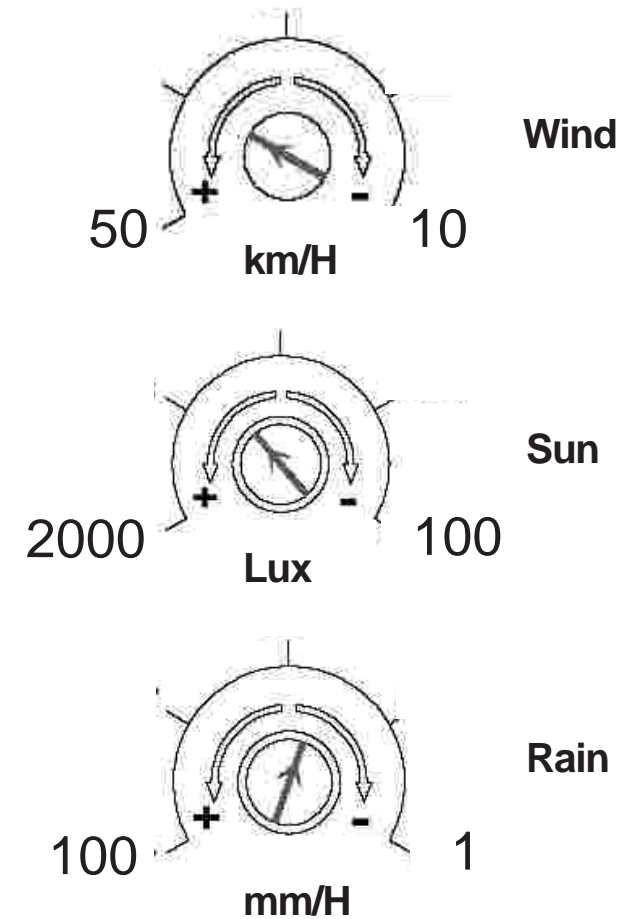
Sun Sensor:

The sun sensor measures the intensity of solar radiation. When the intensity of the light exceeds the threshold set the sensor will send a command to the receiver. The receiver will drive the motor to operate OPEN function protecting your carpets and furnishings.

Rain Sensor:

The rain sensor measures the scale of the rain. When the scale of the rain exceeds the threshold set the red LED will switch on and the sensor will send a command to the receiver. The receiver will drive the motor to operate CLOSE function protecting the awning from getting wet.

Adjustment





Sensor adjustments continued

Note:

There will be 10- 20 seconds delay before the signal is actually operated.

In order for the sensor to operate properly, the sensor must be positioned in an area that is fully exposed to the wind, sun and rain.

Once the wind activates the sensor (or spin the turbine manually), the awning will retract back in and nothing will operate for another 15-30mins (Until the sensor resets itself). Right now the sensor "detects" a huge gust of wind and will want to protect the awning so even if the sensor is exposed to intense sunlight, it wont operate and open out straight away until 15-30mins has passed (otherwise the awning will just go back and forth and damage the awning).

You can reset the sensor settings by switching off and on from the mains power.

Troubleshooting - Q & A

1. The buttons on the receiver work properly, but nothing happens when the remote zapper buttons are pressed.

A: If the LED on the transmitter does not light or only lights weakly when button is pressed, replace the type 23 A 12VDC battery in the zapper or check that the remote zappers are programmed correctly.

2. Neither zapper nor receiver buttons work and receiver doesnt click when the buttons are pressed.

A: If the LED1 doesnt light up make sure that the power is being delivered to terminals L & N (AC Live, AC Neutral) on the power mains of the receiver. If the power is on and the LED1 doesnt light up then the receiver box is more than likely to be faulty. Please call for a replacement.

3. Neither transmitter nor receiver buttons work, but can hear a click in the receiver once the button is pressed.

A: Please make sure that there is line voltage across terminals L & N or R & N and that the wires are connected properly. Repeat this check pressing the DOWN button (one direction should power L&N and the other direction R&N). Reset the receiver box by switching off and on from the mains power. Try operating the side buttons. If it doesnt work, than its likely to be faulty - please call for a replacement.

Guarantee

This sensor is guaranteed against faulty parts and workmanship for one year from the date of delivery. Faulty parts will be replaced or exchanged within that period. The guarantee covers domestic use only.



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