

## **Sunshine Sensor**

The Sensor is designed to be mounted on a mast of between 25 & 50 mm diameter. The mast should be sited where trees, buildings etc. will not cause a shadow at any time of day throughout the year. It must be borne in mind that the sun rises and sets on the horizon which in mid-summer can be NE & NW (depending on latitude) and only rises to a low angle in mid-winter.

The Sensor is best mounted above any aerials etc and pointed approximately South (North in the Southern hemisphere) to avoid shadows. Bear in mind also where the display and junction box are to be mounted so that complications with the cable run can be avoided.

## **Junction Box**

This should be mounted in close proximity to a mains socket and within reach of the final position of the display unit (5 metres inter-connecting wire to the display supplied).

Remove the cover and mount to wall by fixing holes provided. The Sensor can now be connected colour to colour as shown on drawing. Now connect the power supply *prior* to plugging into the mains socket.

## **Display Unit**

The display unit is designed to be wall or shelf mounted. Avoid siting in a window in direct sunlight or above a heater where the temperature may become very high. For wall mounting a key-hole slot is provided at the back of the display. For shelf mounting; slot in the foot provided as shown.

Before mounting, slide off battery compartment lid and plug in cable from junction box. Please note the plug will only go in one way round. Insert batteries, replace battery cover and mount as required.

## **Operation**

The Sunshine Sensor functions by comparing sunlight to shadow, when the ratio exceeds a pre-determined threshold sun is deemed to be shining, the small LED lamp in the junction box will be lit and the counters will count up one every 36 seconds (0.01 hour).

Two digital displays are provided; the upper one for daily readings and the lower for AC cumulative readings. Each have separate reset buttons. Please note the AC reset must be pressed for approximately 5 seconds to zero the digits, this avoids accidental resets.

**Setting Threshold.** This is preset at the factory and should not normally require adjustment. However, should minor alterations be required due the glass dome becoming dirty, the small preset on the junction box board can be adjusted.