Rain Sensor

Features

- Heater to avoid nuisance alarms
- Accurate switching

Specification

Housing:		
	Material	ABS
	Dimensions	70 x 30 x 45mm
Bracket		Stainless steel
Country of origin		UK

Product Codes

WD-RS
Rain sensor with integral heater 2 meter flying lead

WD-RS-5M
Rain sensor with integral heater 5 meter flying lead

Technical Overview

The WD-RS1 range of rain sensors are used to detect rain. The surface of the detector can be heated to avoid false detection alarms resulting from dew forming. The detector can be swivelled on the mounting bracket and is held in place by a wing-nut. This device cannot be connected directly to a BMS controller, a WD-AM module must be used. **NB** The cable excitation used from the WD-AM is an isolated AC signal which ensures the detectors will not be subject to oxidation or erosion over time, avoiding the degradation problems associated with DC systems.

Installation

1. Fix the WD-RS in a suitable location, fix the bracket with suitable screws.

2. In a junction box terminate the cores at the terminal block. Leaving some slack inside the unit.

3. From the junction box connect the cable to the WD-AMX alarm module and terminate the red and blue to the sensor input (polarity independent), and the yellow and green to a 24Vac/dc supply (if required).

4. Power the WD-AMX, and adjust the pot on the PCB clockwise until the LED comes on, and then back until the LED goes off (when a short cable run is used the LED may not even come on when set to max sensitivity).

5. Test the sensor by placing a wet cloth over the stainless steel probes to simulate a water leak, the relay will come on. Remove the rag and the relay will go off.

Dimensions

Red	To detector
Blue	To detector (polarity independent)
Yellow	Heater 24Vac/dc (40mA max.)
Green	Heater 0V