Condensation Detector

Features

- Screw or strap-on mounting
- VFC or current output
- Low smoke & fume flying lead cable

Specification

Output:	
Current mode	dry <3mA, wet >12mA
VFC mode	240Vac @ 1A resistive SPDT
Supply voltage	25Vdc ±5% or 24Vac ±10%
Supply current	12mA max.
Response time	<1 sec. for RH >85%
Flying lead	low, smoke & fume
Dimensions	53 x 41 x 25mm
Mounting plate	1mm thick stainless steel
Country of origin	UK

Product Codes

WD-CBS
Chilled beam condensation detector (1 meter lead)

WD-CBS-5M
Chilled beam condensation detector (5 meter lead)

Technical Overview

The WD-CBS chilled beam sensor is designed to meet the requirements for a low cost device to provide early warning of condensing conditions. Applications include chilled beam/ ceiling systems where control safeguards are required to avoid 'indoor rain'.
The sensor provides either a volt-free contact or current output and is housed in a small enclosure which can be either screwed or strapped to the surface that requires monitoring.

Installation

1. The WD-CBS should only be installed by a competent, suitably trained technician, experienced in installation with hazardous voltages. (>50Vac & <1000Vac or >75Vdc & 1500Vdc)

2. Ensure that all power is disconnected before carrying out any work on the WD-CBS.

3. Choose a suitable location and mount the detector. The unit should be mounted as close as possible to the chilled water inlet, or the coldest part of the system to be measured.

4. The detector can be screwed or bolted directly onto a flat surface with the mounting bar provided, or simply fixed in place on a pipe with the cable-tie.

5. If the detector is to be mounted onto a pipe, it is important the unit is mounted length wise. This is to ensure maximum thermal transfer efficiency. It is also important that no insulating material is used between the detector and the pipe or mounting surface.

6. Terminate the flying lead as required and ensure that the voltage is within the specified tolerances.

Connections

Current mode

Red	+24Vdc
Blue	0V

VFC mode

Red	+24Vac/dc
Blue	0V
Yellow	Common
Green	N/C
White	N/O