



HS-WD-CPS

Condensation Prevention Detector



Overview

The HS-WD-CPS condensation prevention sensor is designed to meet the requirements for a low cost device to provide early warning of condensing conditions. The sensor provides either a volt-free contact or current output and is housed in a small enclosure which can be strapped to the surface that requires monitoring.

Applications

- Chilled beam/ceiling systems

Features & Benefits

- Strap-on or screw mounting
- VFC or current output
- Low smoke & fume flying lead cable
- Adjustable set point
- LED indication of status

Model Selection

HS-WD-CPS-2M	Condensation detector, 2m (6.56ft) lead
HS-WD-CPS-5M	Condensation detector, 5m (16.4ft) lead

Product Specifications

Output

<input type="checkbox"/> Current	dry <5mA, wet >12mA
<input type="checkbox"/> VFC	24Vac/dc @ 1A resistive SPDT
Supply voltage	24Vdc \pm 5% or 24Vac \pm 10%
Supply current	20mA max.
Response time	<5 sec

Measurement Accuracies

<input type="checkbox"/> Temp	\pm 0.2°C
<input type="checkbox"/> RH	\pm 5% RH
Set point offset range	\pm 2°C
Flying lead	Low Smoke Zero Halogen (LSZH)
Dimensions	W73 x H48 x D30 mm (2.76 x 1.89 x 1.18")
Mounting plate	1mm thick stainless steel
Country of origin	UK

Statutory Compliance

EMC:

<input type="checkbox"/> Emissions	EN61000-6-3
<input type="checkbox"/> Immunity	EN61000-6-2

The products referred to in this data sheet meet the requirements of EU Directive 2004/108/EC

NOTE: To obtain maximum accuracy over a narrow band of RH values, the device will not perform valid calculations on levels of RH below 75%.

Connections

Current mode:

<input type="checkbox"/> Red	+24Vdc
<input type="checkbox"/> Blue	4-20mA output

VFC mode:

<input type="checkbox"/> Red	+24Vac/dc
<input type="checkbox"/> Blue	0V
<input type="checkbox"/> Green	Common
<input type="checkbox"/> Yellow	N/O
<input type="checkbox"/> White	N/C