

DATA SHEET

Dew point sensor SHS-A3



Characteristic features

- Detection of high humidity, dew formation or condensation
- Application range from 0 ... 100 RH, 0 ... 60 °C
- Model with SIL-contacts for PCB

Typical areas of application

- Building instrumentation, cool ceiling controller, air-conditioning
- Moisture protection in switchgear panels and electrical equipment
- Condensate detection in external walls
- Ventilation control in sanitary rooms
- Leakage monitor for waterproof housings
- Brown goods, CAMCORDER und Cameras

Features

The humidity sensor SHS A3 is a resistive dew formation sensor for detecting the onset of condensation. The exponentially rising resistive characteristics in the upper humidity region facilitates simple signal processing and a stable switching behaviour on dew formation threshold.

The big size design enables optimised thermal contact to sense surface humidity in cooled objects. The component can be glued on surfaces, for example, on metallic items.

Through SIL-contacts, the component can be directly mounted on the printed circuit board.

Other models, for example, with connection leads and plug are also available on request.

Technical data

Measuring principle	resistive humidity sensor
Humidity range	0 ... 100% RH
Temperature range	0 ... 60 °C
Impedance rH<75%	at < 20 kOhm
Impedance rH<93%	at < 100 kOhm
Impedance rH>97%	at > 150 kOhm
max. voltage	evaluation < 0.8 Vpp ~/=
Base substrate	Ceramic, 10 x 20 x 0.6 mm
Connection	2 SIL-contacts RM 5.08 mm x 20 mm
Ordering No.	SHS-A3

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