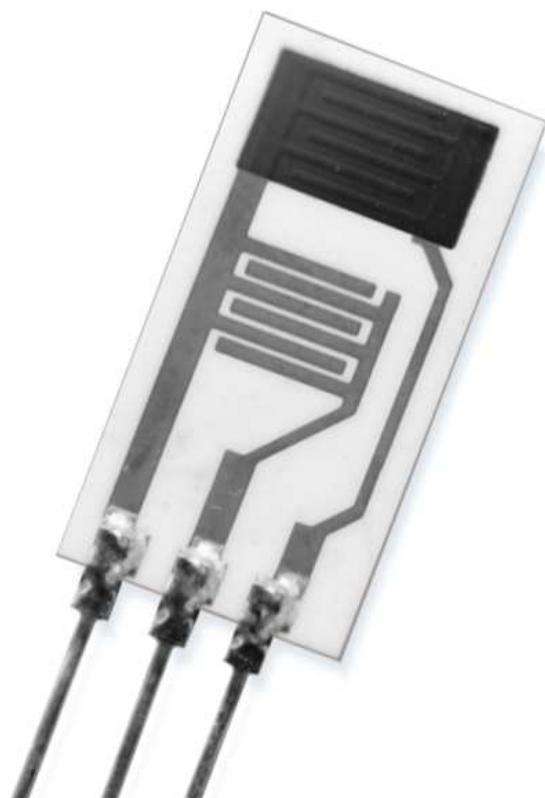


Dew point sensor SHS-A5



Technical Data

Resistive Dew point sensor SHS-A5

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|--|--|
| Measuring principle | resistive humidity sensor, additional conductance sensing structure |
| Humidity range | 0...100% relative humidity |
| Temperature range | 0...60 °C |
| Impedance at RH<75% | < 20 k Ohm |
| Impedance at RH<93% | < 100 k Ohm |
| Impedance at RH>97% | > 150 k Ohm |
| Interdigital structure | Conductance structure, approx. 10 µS |
| max. evaluation voltage | Res. Sensor < 0.8 V pp ~/ Conductance < 2 V pp ~ |
| Base substrate | Ceramic, 20 x 10 x 0,6 mm |
| Contacts | 3 SIL-contacts RM 2.54 mm, l=20 mm |
| Ordering No. | SHS-A5 |
| Rights reserved for change in technical data for technological advancements! | |

Characteristic features

- Detection of high humidity, dew formation or condensation
- Additional interdigital structure for independent detection of water
- Application range from 0% to 100 RH, 0 to 60 °C
- Model with SIL-contacts for PCB

Typical areas of application

- Building instrumentation, cool ceiling controller, air-conditioning
- Moisture protection in switcher panels and electrical equipment
- Monitoring of flat roofs
- Condensate detection in outside directed walls
- Ventilation control in sanitary rooms
- Leakage monitor for waterproof housings

Features

The Humidity sensor SHS A5 is a combined sensor for detecting the onset of condensation with additional interdigital structure (conductance sensor) for detection of liquid water or condensate. The exponentially rising resistive characteristics in the upper humidity region facilitates simple signal processing and a stable switching behaviour on dew formation threshold.

The ceramic substrate can become a thermal contact on the reverse side to sense surface humidity. Through SIL-contacts, the component can be directly mounted on the printed circuit board.