

DATA SHEET



Capacitive humidity sensor KFS330-MIN

Description



Characteristic features

- High resistance to chemicals
- Fast response time
- Hot water resistant
- Excellent hysteresis behaviour
- Mechanically robust
- Linear characteristics over a wide range
- Wide application spectrum
- Very good price performance ratio
- RoHS conform

Areas of application

- Industrial measuring systems
- Medical systems
- Pressure dew point measurement systems

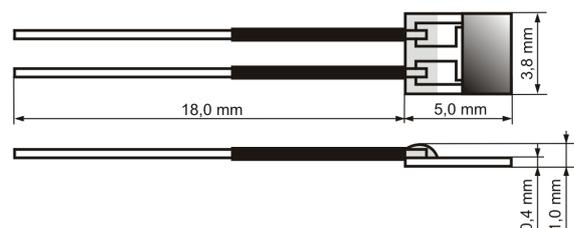
Technical data

Measuring principle	Capacitive polymer humidity sensor
Humidity range	0 ... 100 % RH
Temperature range	-40...+190 °C
Capacitance	200 pF ± 40 pF (bei 30 % RH)
Gain Value	0.3 pF / % RH (20 ... 95 % RH)
Tan d	≤ 0,01 (bei 90 % RH)
Hysteresis	< 2,0 % RH
Response time	< 10 sec. typ.
Frequency range	1...100 kHz
max. evaluation voltage	< 12 Vpp ~
Signal waveform	AC voltage (without DC-component)
Dimensions	3.81 x 5.0 x 0.4 mm
Connection	PTFE isolated Cu/Ag-wires Ø 0.4 x 19.5, RM 2.54 mm RoHS-conform
Order No.	KFS330-MIN

Features

The capacitive humidity sensor with a nominal capacitance of 200 pF and a wide range of applications in the humidity-temperature matrix offers ideal solutions for many problems in the humidity measuring technique. Another highlighting feature is its single layer high performance polymer which imparts very high chemical resistance to the sensor and guarantees outstanding long term stability.

The KFS330-MIN is a result of further development and miniaturization of the already proven humidity sensor type KFS330. By using the same polymer on a reduced substrate size, the same level of chemical resistance of type KFS330 has been achieved with a little lower output signal but with a very good price performance ratio.



For further information, please visit our website: bb-sensors.com