



### 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

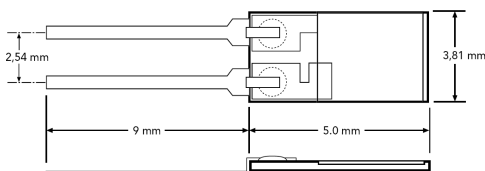
### Typical areas of application

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



### Features

The KFS 330 is a new development in which special know-how in combination with most modern production methods has been applied with a vision to bring out a truly technical product. The capacitive humidity sensor with a nominal capacitance of 300 pF and a wide range of application 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.



### Technical Data

Capacitive Humidity Sensor KFS330	
Measuring principle	Capacitive Polymer humidity sensor
Humidity range	0 ... 100% relative humidity
Temperature range	-40 ... +190 °C
Capacitance	300 pF $\pm$ 40 pF (at 30% r.H.)
Gain Value	0.45 pF / %r.H. (20 ... 95% r.H.)
Tan $\delta$	< 0.01 (at 90% r.H.)
Hysteresis	< 2.0% r.H.
Response time	< 10 sec.
Frequency range	1 ... 100 kHz
max. evaluation voltage	< 12 Vpp ~
Signal waveform	AC voltage (without DC-component)
Dimensions	3.81 x 10.8 x 0.4 mm
Connection	SIL- contacts, wired or customised
Order No.	KFS330
Example circuits, Evaluation-Kits und complete Module available on request !	

For further information, please visit our website:

[www.hygrosens.com](http://www.hygrosens.com)

