



ANTI-FOGGING SENSOR SAAF SERIES

Automotive Sensor Solutions for Increased Well-Being and Energy Efficiency

For Reliable and Efficient Anti-Fogging and Auto-Defrost Control

- Direct measurement of relative humidity and temperature at windshield surface
- Small form factor for flexible integration and optimized thermal coupling to windshield
- Different interface options available, e.g. LIN, PWM

SAAF3

SENSIRION AUTOMOTIVE ANTI-FOGGING SENSOR

FEATURES

- Bracket mounting or tape mounting solution available
- Automotive grade connector, customer specific solutions offered
- Highly accurate sensor signals: calibrated, linearized and temperature compensated



APPLICATIONS

VALUE TO THE CUSTOMER

- Sensor is mounted directly on the windshield and provides information of relative humidity, temperature and dew point temperature
- Increased safety, as reliable prevention of fog can be achieved
- Increased energy efficiency, as fast response time and optimal thermic coupling to the windscreen enables the HVAC controller to switch on defrost mode only when necessary

SPECIFICATIONS

SAAF3 Sensor Specifications	
Relative humidity	Range 0 – 100 % Accuracy $\pm 3\%$ (10 – 60 °C air temp. / 10 – 100 % RH) Response time < 10 sec (0 – 60 °C)
Temperature	Range –40 – 85 °C Accuracy $\pm 1.0\text{ }^{\circ}\text{C}$
Dew point temperature	Range –40 – 85 °C Accuracy $\pm 1.0\text{ }^{\circ}\text{C}$ (typ. cond.: 23 °C air temp. / 45 – 90 % RH)
Electrical interface	LIN 2.2, 19.2 kbd / PWM solution available
Supply current	Typ. 10 mA
Supply voltage	9 – 16 V
Mech. dimensions	49 mm \times 21 mm \times 11 mm