

Delphi Evaporator Air Temperature Sensor

► Description

The Delphi Evaporator Air Temperature (EVAP) Sensor is a continuous function device that changes resistance inversely to temperature. It measures the air temperature at the heating, ventilation and air conditioning (HVAC) evaporator core and provides a signal to the automatic climate control unit.



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The sensor integrates the following:

- Plastic sensor body
- Connector
- Negative temperature coefficient thermistor assembly

Design flexibility allows the EVAP sensor to be customized to match calibration criteria, and mounting and packaging requirements. The sensor is also capable of system integration.

► Benefits

- Simple, lightweight, and cost-effective design
- Customized packaging of:
 - Mounting features
 - Sealing options
 - Connection system
 - Resistance output
 - Probe length
- 100 percent resistance calibration verification helps ensure quality and reliability

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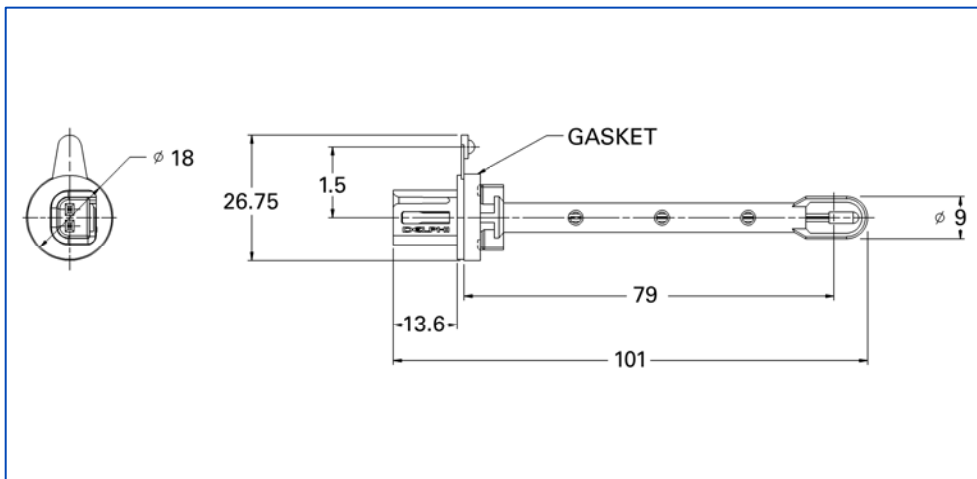
► Performance Specifications

Thermal and Electrical Properties

- Typical voltage supply: 5 V DC
- Operating temperature: -40°C to +135°C
- Output voltage: 0 to 5 V DC linear
- Thermistor resistance at +25°C: 30K or 10K ohms
- Thermal time constant: <8 seconds in slow moving air at 25°C maximum
- Accuracy (\pm °C): 1% from (-5°C to +10°C)

Mechanical Characteristics

- Material: GF Nylon 66
- Overall weight: 5.7 grams
- Color: black



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Note: All measurements are in millimeters.