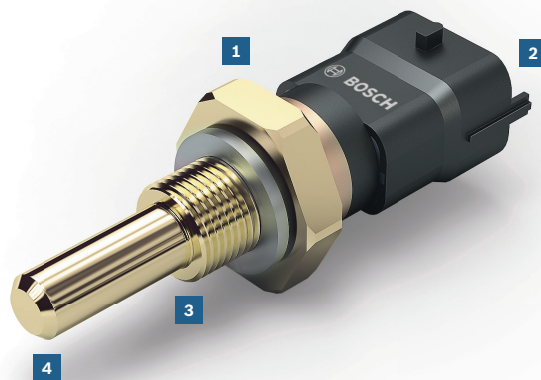


# Air management

## Temperature sensor



**BOSCH**  
Invented for life



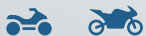
### Product benefits

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- ▶ Helps manage cold starts, warming up, fan control, etc.
- ▶ Media resistant (e.g. water, fuel, oil, battery acid)
- ▶ Wide temperature range

### Vehicle segments

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- 1 Hexagon
- 2 Connector
- 3 Thread
- 4 Sensing unit

# reliable

Helps control various functions, such as cold starting, for **safe and comfortable engine operation**.

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**Task** The temperature sensor measures the temperature of the coolant, oil, or fuel. This value is used to improve cold-start capability and for engine cooling and protection.

**Function** To measure the temperature of coolant, oil, or fuel, the temperature sensor uses an NTC sensor element (Negative Temperature Coefficient): As the temperature increases, the element's electrical resistance is reduced.

## Technical characteristics

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Application	Measures coolant, oil, or fuel temperature
Temperature range Standard	-40 °C to 130 °C
Temperature range Optional	≤ 150 °C
Supply voltage	5V
Sensor element	NTC (Negative Temperature Coefficient)
Vibration-proof	≤ a(sin) = 300 m/s <sup>2</sup>