



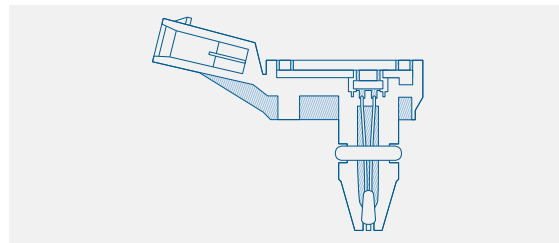
**BOSCH**  
Invented for life

# Intake manifold and boost-pressure sensor with integrated temperature sensor

Optimizes fuel injection and air control



Analog or digital – but always accurate



**lower  
raw emissions**

**through optimal air/fuel mixture composition**

**0.5 %**

**sensor accuracy over service life**

- ▶ The engine control unit calculates the exact pressure and temperature of the intake air using information from the inlet manifold and boost-pressure sensor.
- ▶ The sensor helps control the fuel quantity while simultaneously reducing raw emissions.
- ▶ The pressure is measured by a silicon membrane that deforms as pressure is applied and changes the value of the pressure-sensitive (piezo-resistive) resistors. A gel on the membrane protects against deposits. The temperature is measured by a temperature-dependent resistor (NTC: Negative Temperature Coefficient).
- ▶ Outstanding media and temperature resistance resulting from many years of experience in the field.
- ▶ Customer-specific solutions for housings and connectors.