Engine management
Camshaft position sensor

PRODUCT BENEFITS
- High measurement accuracy and large temperature range
- Robust design for long lifetime
- High EMC/ESD protection
- Wide air gap range
- Flexible design
- Non-contacting measurement
- Compact design and low weight
- Twist insensitive mounting (TIM)

1 Electrical interface (connector)
2 Measuring unit
3 Mounting flange
**TASK**
The electronic engine management enables precise, central control of all functions relevant for engine operation. This control is based on ongoing, exact information from the drivetrain. This information is provided by sensors. The engine control unit uses the camshaft speed sensor to record the position of the camshaft. The sensor’s high precision enables exact injection/ignition timing and a precise variable camshaft phasing, which increases power and supports emission reduction at the same time.

**FUNCTION**
The camshaft position sensor is designed as a non-contacting Hall sensor. Due to the true power on function (TPO) the sensor is quick start capable. It provides a position information immediately after engine start.

**TECHNICAL CHARACTERISTICS**

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<td>−40 °C to +150 °C (max. 250 hours at +160 °C)</td>
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<td>Air gap</td>
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- **quick starting capability**
due to TPO function (true power on)

- **economical**
Helps reduce fuel consumption and hence CO₂ emissions