

CAMSHAFT SENSOR



ITS FUNCTION



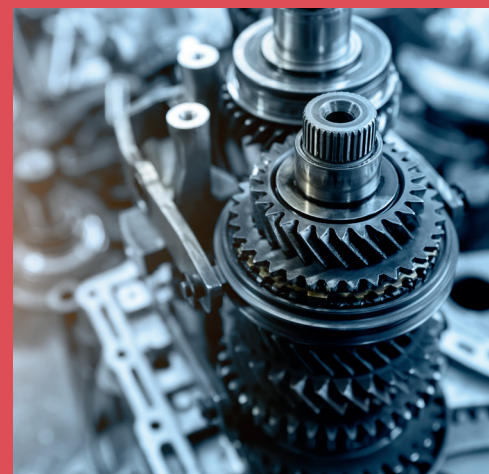
The camshaft position sensor **measures the position and the rotational speed of the camshaft**, a key factor in engine operation. It is used to **synchronise fuel injection, regulate ignition, detect cylinder phase and activate variable valve timing**.

This information, transmitted to the engine control unit (ECU), **optimises engine performance, reduces pollutant emissions and improves fuel efficiency**.

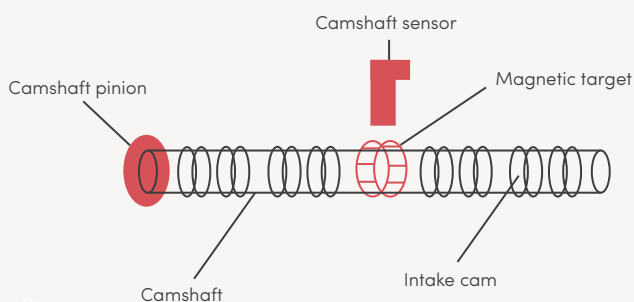
GOOD TO KNOW

The camshaft sensor is usually **mounted close to the camshaft, in the engine cylinder head**. However, it can be mounted in a number of different places:

- **At the end of the camshaft or near the valves** for in-line engines.
- **One sensor per camshaft, usually mounted in each cylinder head** for V-type engines.
- **Near the valve opening angle** for engines with variable valve timing.



ILLUSTRATION



TECHNOLOGIES

Camshaft sensors can use **several technologies**, each with its own advantages and specific applications: the Hall effect, variable reluctance (VRS) or optics.

The **Hall-effect sensor** - the most common technology on the market - is **an accurate and durable system, capable of operating at high speeds**.



TECHNICAL HOTLINE

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