

Engine Management Sensors

Overview, features and benefits

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Bosch Engine Management Sensors

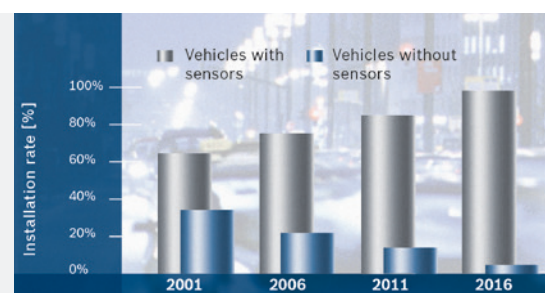
As the world's largest sensor manufacturer, Bosch sensors have proven themselves under tough conditions in millions of vehicles. Comprising of more than a hundred types, the Bosch range is comprehensive. It offers the perfect solution for practically every requirement found in the motor-vehicle segment.

For modern day engine management systems to operate at their optimum, they require information on all aspects of engine function in all driving conditions. Sensors provide this information. As technology advances the number of sensors required per engine also increases. These components are absolutely vital to the correct operation of these engines.

- ▶ Original equipment products
- ▶ Diverse range
- ▶ Ensure critical optimum engine performance, emissions and fuel economy
- ▶ Precision, reliability and long service life

Function

- ▶ Engine management sensors are used to measure a variety of engine parameters to ensure the engine management system operates efficiently.
- ▶ They are vital components for the modern day engine.
- ▶ They provide data to the ECU to control emission levels, ignition timing/duration, engine warm-up cycle, and engine mixture control for all atmospheric conditions and load variations.



Product Range & Terms

- ▶ Pressure sensor: low, high, differential, peripheral.
- ▶ Rotational speed sensor (crankshaft) also known as crank sensor, speed/reference sensor, TDC sensor, engine speed sensor
- ▶ Rotational angle sensor (throttle valve)
- ▶ Pedal travel sensor
- ▶ Phase sensor (camshaft) cam sensor
- ▶ Knock sensor

Engine management sensors are subject to severe mechanical, climatic, chemical and electromagnetic loading therefore it is essential that they are fit for purpose. Bosch manufactures these to the highest possible standards.



Vital components, without which, the engine could not run efficiently or conform to emission requirements