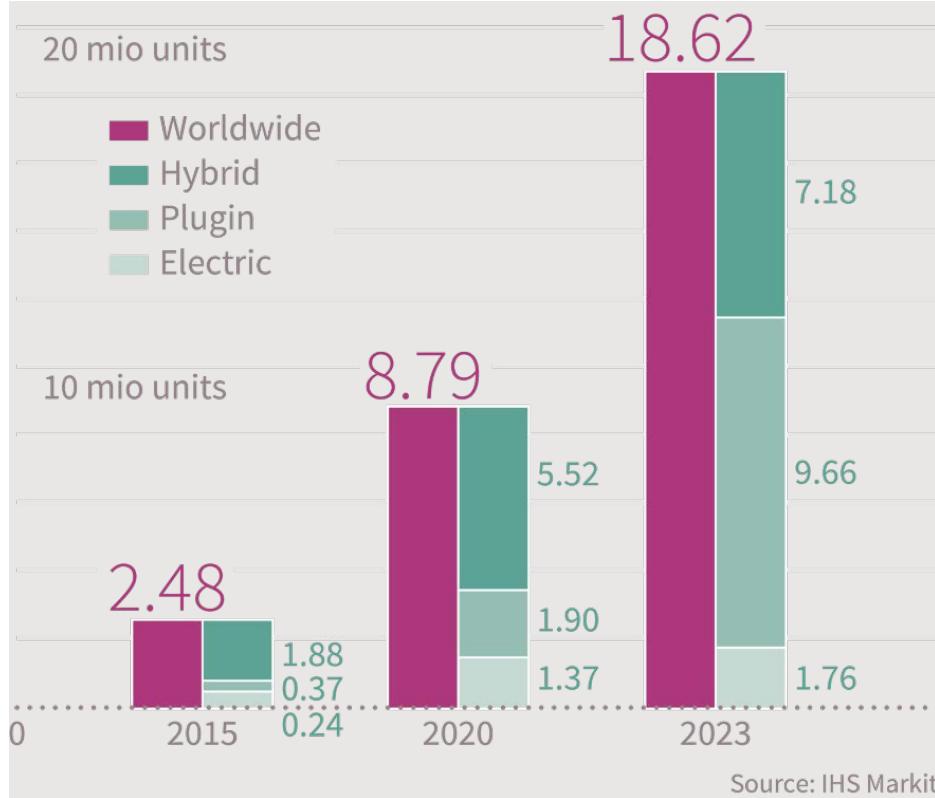


New challenges for engine sensors in hybrid powertrains

Virtual sensor experience 2020



New challenges for engine sensors by emission regulations



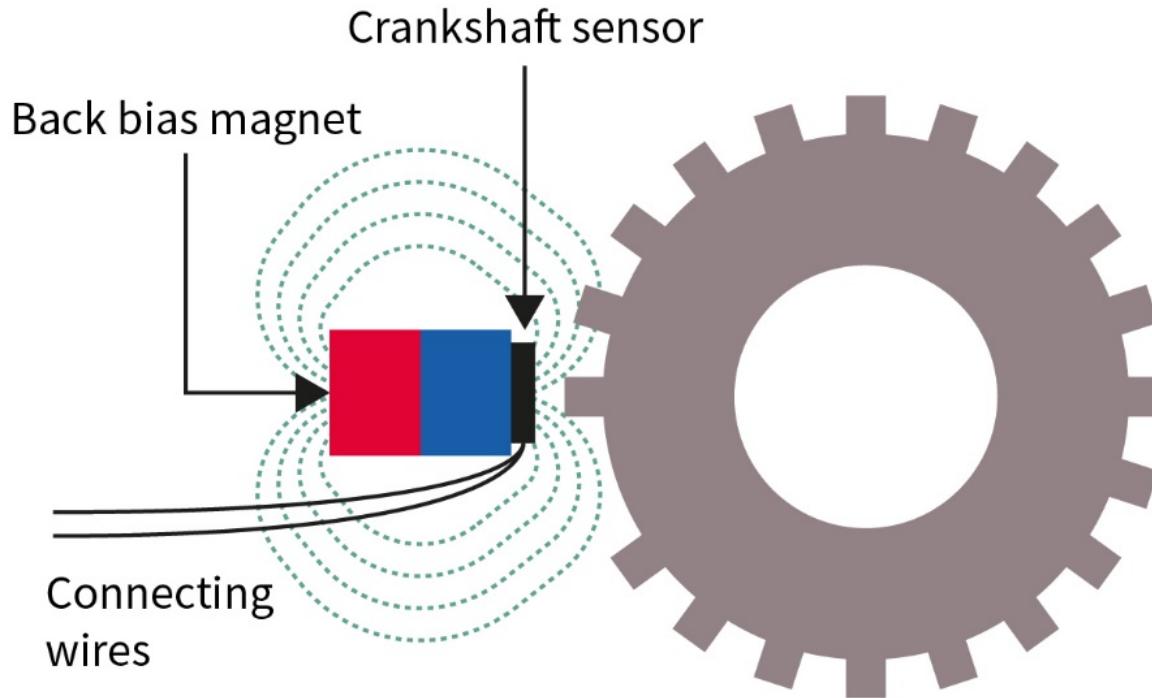
Emission regulations worldwide drive electrification of powertrains.

Hybrid and Plugin-Hybrid powertrains are key enabler technologies here.

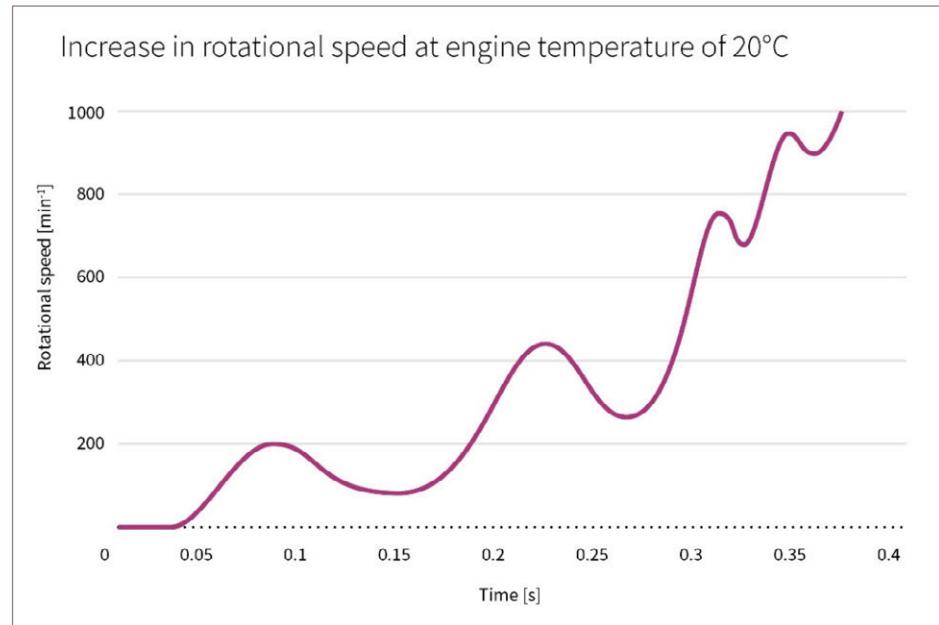
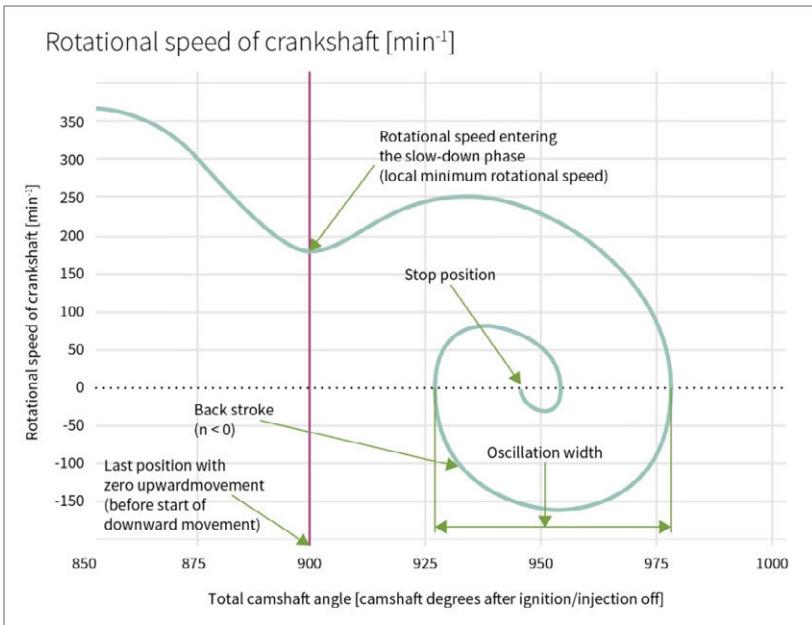
Combustion engine utilization will change significantly.

This brings new challenges for sensors in engine control.

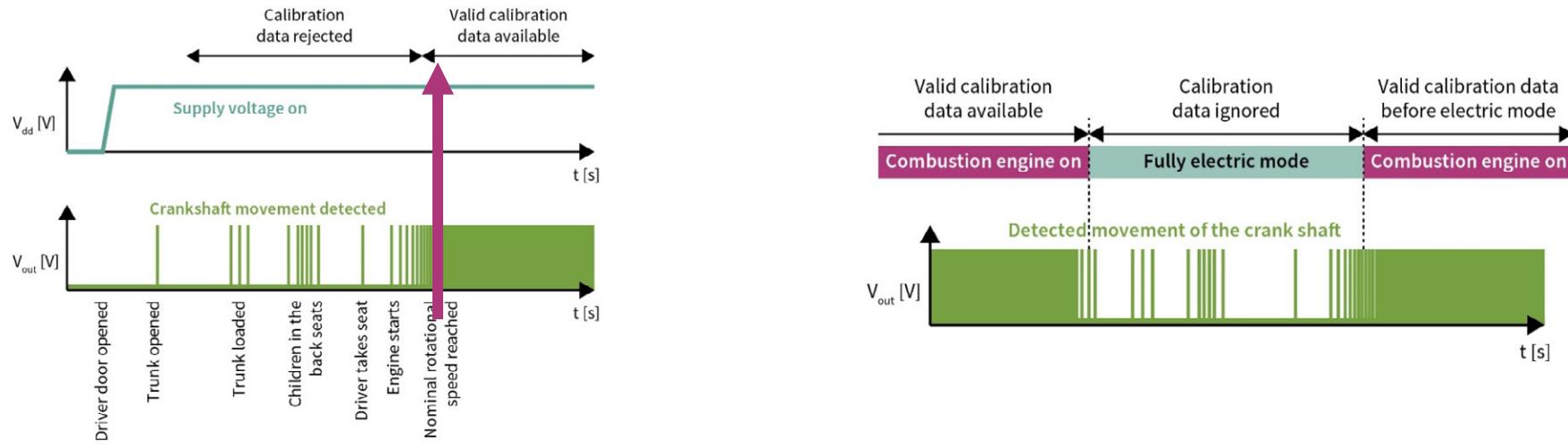
What is a crankshaft sensor system?



Stop-Start Application to reduce fuel consumption / save CO₂



TLE4929C – The Solution for Hybrid Vehicle Crankshaft



Overview of Infineon XENSIV™ crankshaft sensors:

TLE4929C-XAx	First-generation low-jitter, Hall-based crankshaft sensor.
TLE4929C-XVA	Second generation includes several additional crankshaft protocols and a time watchdog to overcome start-up vibrations. In addition, this device is available with nickel plating for the first time.
TLE4929C-XHA	Third generation includes an additional dedicated hybrid watchdog and a new calibration feature to meet increased absolute phase accuracy requirements.



Part of your life. Part of tomorrow.