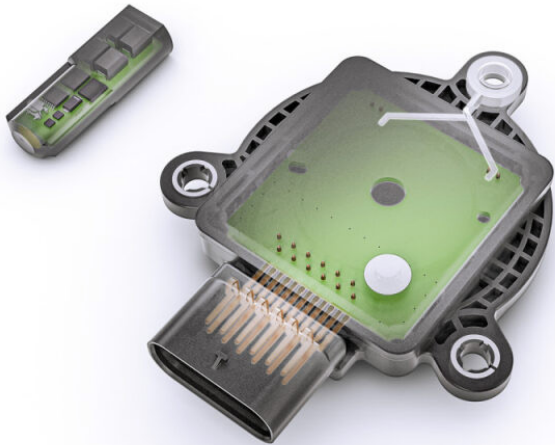
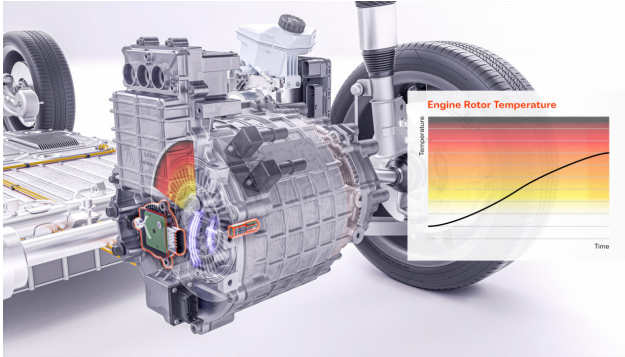


Sensors for EV – e-Motor Rotor Temperature Sensor Exhibit



Benefits for OEM, drivers & passengers

Sensor purpose:

The temperature sensor determines the rotor temperature close to magnets in e-Motors using wireless signal transmission. The sensor accuracy with this solution allows a more precise temperature management.

- Precise temperature management with direct measuring sensing enables to scale the motor between more efficiency or magnet protection from thermal demagnetization
- Our eRTS is an enabler for sustainability with
 - Potential to reduce critical materials like rare earth needed for thermal magnet protection
 - Increased efficiency in e-mobility through scalable motor performance for electrified vehicles

Our value proposition

- Cost reduction: Enables significant savings by reducing the need for expensive rare earth materials in EV motors.
- Sustainability: Supports a more sustainable EV supply chain by minimizing rare earth usage.

AUMOVIO Technology

- Two elements:
 - Transducer (outside) can be integrated in e-Motor Rotor Position Sensor (eRPS) or as a stand-alone product
 - Mote (in rotor) measures temperature
- Signal transmission: wireless, ultrasound
- Accuracy: ± 3 °C, response time < 5 s
- Communication interface to the vehicle from transducer: analog or digital
- Operating supply voltage: 4.5 – 5.5 V
- Temperature range: -40 °C – $+150$ °C