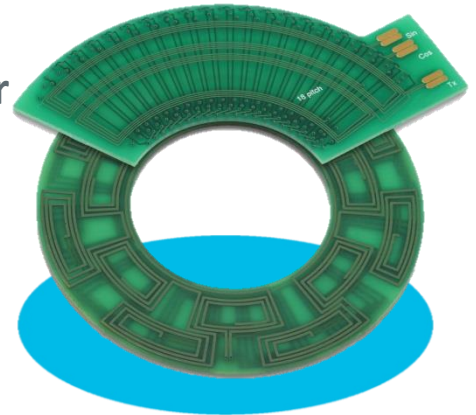


Fast Facts

HSRP sensor - Inductive High Speed Rotor Position Sensor

A combination of high accuracy and fast response time is required for rotor position sensors in the electric motors of hybrid or electric vehicles. This allows the control unit to drive the motor optimally, and leads to a reduction in energy consumption and an increased range of the vehicle.

AB Elektronik has developed a new high speed position sensor to meet these requirements. First prototypes of this new sensor have demonstrated market leading performance. This technology can be used in other applications where accuracy and response times are critical (for example, electric power steering), and is also capable of making an additional velocity measurement, which could be used in active suspension systems.



The basic structure of the HSRP sensor is similar to AB Elektronik's mature and proven Autopad® technology. This special technology allows a two channel measurement without additional components.

Typical applications

- High speed accurate sensing of the rotor position in electric and hybrid vehicles
- Electric Power Steering
- Active suspension systems

Special features

- More accurate position sensing than conventional sensors
- Immediately absolute position information after engine start until high speed of up to 30,000 rpm
- Inductive measurement technology
- Very robust against vibration
- Wide operating temperature range (-40 to 150 °C)
- Immune to low frequency magnetic fields
- Small package size
- Redundant measurement without additional same installation space
- Able to measure velocity as well as position

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.