

Technical Information

Sensors for X-By-Wire-Systems

Steering Sensors

Position Sensors by Hella

- Ratiometric inductive measurement principle
- High accuracy and robustness over lifetime and temperature
- Different kinds of redundancy available
- Measurement range applicable for customer requirements
- Optimized for high volume production



Steering Angle Sensor

Applications for:

- Steering angle sensors
- Steering torque sensors
- Angle/Torque combination sensors
- Multiturn optional
- Engine compartment and interior

Mechanical Data

Size Sensor:	71 mm x 56 mm x 37 mm
Size Rotor:	Ø 39 mm x 7 mm
Rotor:	Punched part from stainless steel to be pressed onto the steering shaft
Position:	Engine compartment: mounted onto the steering housing
Sealing:	Environment: IP 6K9 with connector Steering housing: IP 6K9
Operation temperature:	-40°C up to +150°C (-40°F up to 305°F)
Range:	Various

Electrical Data

Voltage:	5V or VBat
Current:	< 10 mA per channel
Output signal:	PWM with programmable frequency
Accuracy:	≤ 1.2° over lifetime and temperature
Resolution:	10 Bit
EMV / EMC:	Fulfills all common requirements for automotive applications