

# 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

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

#### Electrical Data

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