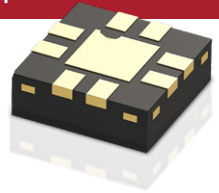


## Positioning sensors for automotive applications

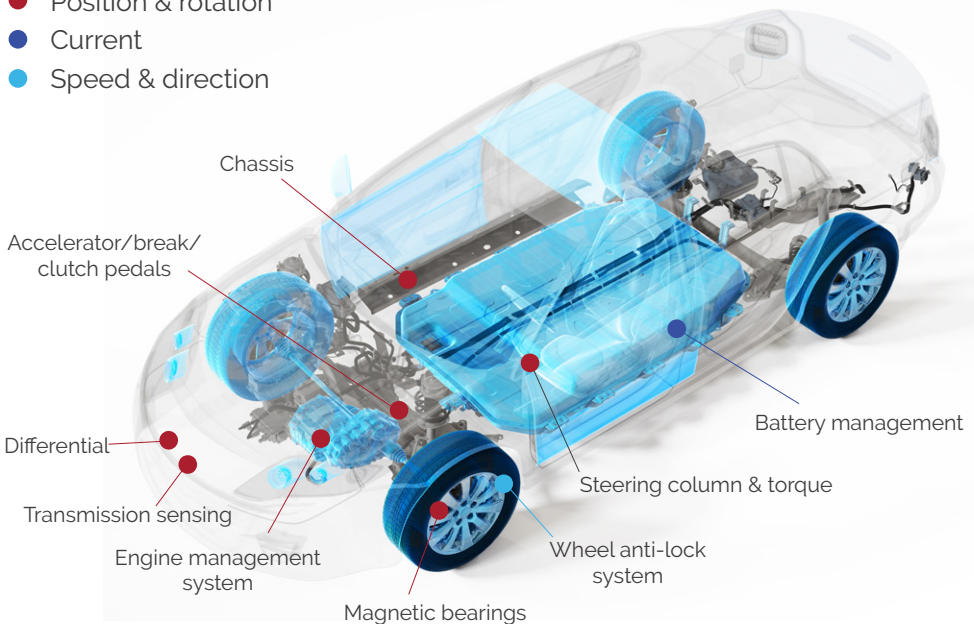
Paragraf is the world's first company to use graphene to mass produce electronic devices using standard semiconductor processes.



Our high-performance graphene sensor technology brings magnetic field measurement resolution towards that of more complex magnetic sensors, yet with the ease of use of a Hall sensor.

With its linear temperature coefficient, high sensitivity and resilience to shock and vibration, our magnetic sensor allows for precise position sensing as well as accurate rotation and torque measurements in electrically noisy environments.

- Position & rotation
- Current
- Speed & direction



## Superior mechanical performance to other semiconductors

For automotive applications, post test calibration is not required with Paragraf sensors. Peripheral electronics are simplified – amplification can be reduced or removed completely. In addition, spinning current and demodulation circuitry is simpler to implement.

Features	Benefits
<ul style="list-style-type: none"><li>• High linearity and no hysteresis</li><li>• High resilience to shock and vibration</li></ul>	<ul style="list-style-type: none"><li>• Performance without need for complex calibration, simplifying required electronics and reducing cost</li></ul>
<ul style="list-style-type: none"><li>• Low noise measurements</li></ul>	<ul style="list-style-type: none"><li>• Amplification electronics can be minimised or avoided entirely, decreasing cost and system complexity</li></ul>
<ul style="list-style-type: none"><li>• High resolution and sensitivity</li></ul>	<ul style="list-style-type: none"><li>• Rival performance of more complex semiconductors, with the ease of use of silicon</li></ul>
<ul style="list-style-type: none"><li>• -55°C to 125°C operation</li></ul>	<ul style="list-style-type: none"><li>• Conforms to standard automotive regulations</li></ul>



With instantaneous response, wide measurement range, low power and ease of use, the graphene Hall sensors are ideal for positional, rotational and current sensing in automotive applications.

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