

Magnetic Sensing Applications for Automotive

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.

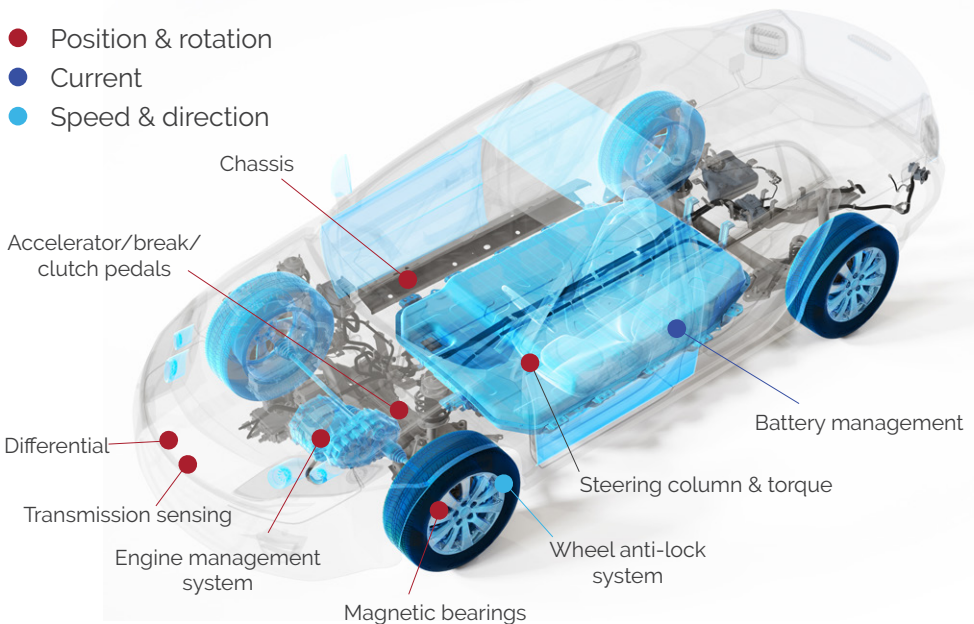


With its linear temperature coefficient, high sensitivity and resilience to shock and vibration, it allows for precise magnetic sensing as well as accurate position, rotation, and torque measurements in electrically noisy environments.

Superior mechanical performance to other semiconductors

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

- Position & rotation
- Current
- Speed & direction





Features	Benefits
<ul style="list-style-type: none">• High linearity and no hysteresis	<ul style="list-style-type: none">• Simplify calibration
<ul style="list-style-type: none">• Low noise measurements	<ul style="list-style-type: none">• Minimal amplification electronics required
<ul style="list-style-type: none">• High resilience to shock and vibration	<ul style="list-style-type: none">• No shielding requirements
<ul style="list-style-type: none">• High resolution and sensitivity	<ul style="list-style-type: none">• Rival performance of more complex semiconductors, with the ease of use of silicon
<ul style="list-style-type: none">• -55°C to 125°C operation	<ul style="list-style-type: none">• Conforms to standard automotive regulations




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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