Bourns® Torque Sensors offer non-contacting solutions for column, rack and pinion drive electric power steering systems. Based on production proven technology, Bourns® Torque Sensors meet the full range of steering system design requirements including resolution, accuracy, and repeatability. Simple installation and electronic calibration ensure efficient and accurate system integration. Dual parallel slope outputs facilitate system interface and together with sensor self-diagnostics, provide enhanced system reliability.

### Features
- Dual torque outputs
- Non-contacting sensor technology
- Production proven design
- Electronic calibration
- ±4 ° to ±10 ° torque angle ranges available
- Self-diagnostics and diagnostic output

### Applications
- Column drive steering systems
- Rack drive steering systems
- Pinion drive steering systems

### Electrical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>5.0 vdc ±0.5 vdc</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>Analog ratiometric, PWM</td>
</tr>
<tr>
<td>Torque Angle Accuracy</td>
<td>1 % of FS²</td>
</tr>
<tr>
<td>Torque Angle Resolution</td>
<td>0.02 % of FS</td>
</tr>
<tr>
<td>Electrical/Magnetic Hysteresis</td>
<td>0.1 % of FS</td>
</tr>
<tr>
<td>Sensor Power Current Draw</td>
<td>&lt; 10 mA</td>
</tr>
<tr>
<td>Source Current, 10 kΩ Load</td>
<td>≤ 1 mA</td>
</tr>
</tbody>
</table>

### Mechanical Specifications

- Mechanical Hysteresis: N/A
- Torque Angular Range: ±4 ° to ±10 °
- Total Angular Travel: ±720 ° typical

### Environmental Specifications

- Operating Temperature Range: -40 °C to +65 °C
- Storage Temperature Range: -40 °C to +85 °C³
- Dither Life @ 25 °C: 3.5 million @ ±5 °
- Life @ -40 °C to +65 °C: 2 million ±360 °

1 Each output.
2 Preliminary.
3 Column drive systems. Contact Bourns for rack drive and pinion drive systems requiring a +125°C temperature range.

### Performance

- EPS Torque Sensor with Dual Parallel Outputs

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Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.
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