

## **Torque and Angle Sensor Combo Suits Electric Power Assisted Steering**

Bourns, Inc., announced a new combined torque and angle sensor designed for Electric Power Assisted Steering Applications (EPAS) and other automotive systems. The new combined sensor provides torque and steering angle measurement in a single package, replacing two discrete sensors. Based on the company's Hall Effect (HE) non-clockspring torque sensor technology, the combined sensor uses driver input to measure the steering torque while simultaneously converting the rotation speed and direction of the steering wheel. The torque portion of the sensor is designed specifically for EPAS, and the steering angle signal can be used in a variety of automotive systems including Electronic Stability Control (ESC), Advanced Front Lighting Systems (AFLS), Navigation, and Assisted Parking Systems. Bourns offers several variations of its new combined torque and angle sensor to meet customer requirements. Variations include dual and single channel options on the torque portion depending on redundancy requirements, and the steering angle sensor can support incremental or absolute measurement. The new torque and angle sensor is suitable for column or rack mounted EPAS. For rack-mounted applications, the combined sensor has been designed to sustain temperatures from -40°C to +140°C. The new device provides CAN steering sensor output in addition to an analog torque signal. The torque sensor output can also be configured to support PAS4, PSI5 and PWM outputs.

### **Bourns, Inc.**

951-781-5690, [www.bourns.com](http://www.bourns.com) [1]

### **Source URL (retrieved on 01/27/2015 - 11:41pm):**

<http://www.ecnmag.com/product-releases/2011/05/torque-and-angle-sensor-combo-suits-electric-power-assisted-steering>

### **Links:**

[1] <http://www.bourns.com>