

# Product Focus

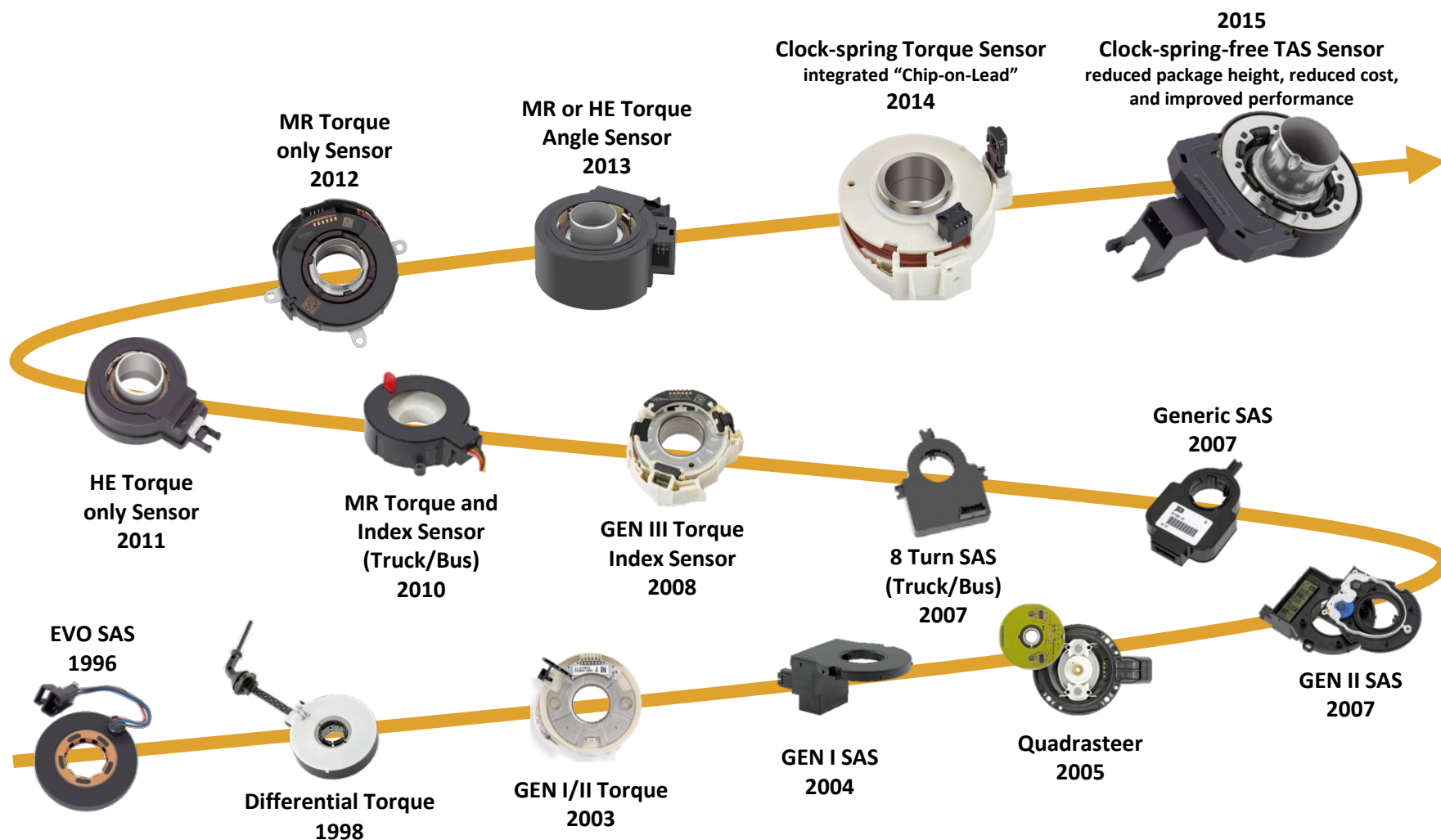
Steering and Stability Control Sensors

**BOURNS<sup>®</sup>** *Automotive Division*

# Steering and Stability Control



# Product Evolution Steering Sensors



# Steering Angle Sensors for Passenger Cars and Commercial Vehicles



## Application:

Steering Angle Sensors provide the steering angle/steering position and the steering/angular speed for systems like ESP, AFS, AFLS and park assist. Features AMR or GMR sensing technology, true-power-on, and is a multiturn product (up to  $\pm 4$  turns). ASIL compliant, utilizes CAN output (SENT in development) or raw signal output. Standalone versions are available for steering columns or CEAs (column electrical assemblies); clockspring module mounted/integrated, low profile housing for clockspring snap-on.

# Differential Non-Contacting Angle Sensor



## Available with Index Measurement

Hall based switch and magnet provide index function



## Application:

A differential non-contacting angle sensor is used as the torque sensor in electric power steering, active steering and park assist. A combo sensor steering-torque is a differential non-contacting angle sensor combined with a steering angle sensor.

# Motor Position Sensor

## (Electric Power Assisted Steering = EPAS)



### Application:

Features EPAS motor position, electronic differential position, electronic integrated transfer case, electronically actuated clutch, compliant steer position feedback. The non-contacting angle sensor in the EPS motor cap has been supplied since 2006. Used in conjunction with the torque sensor to provide steering angle.



# Chassis Level Sensor for Passenger Cars and Commercial Vehicles



## Application:

Dynamic headlamp level adjustment, AFLS headlamp adjustment, air suspension positional feedback, continuous electronic damping control, tilting vehicle applications for invalid access, lifting axle position detection, vehicle and trailer load ride height position; non-contacting (wear-free, MR or x-axis-hall) technology.

# Linear Sensors

## Linear Sensing Applications – Non-Contacting Technology

