



# Product Focus

## Speed Sensors

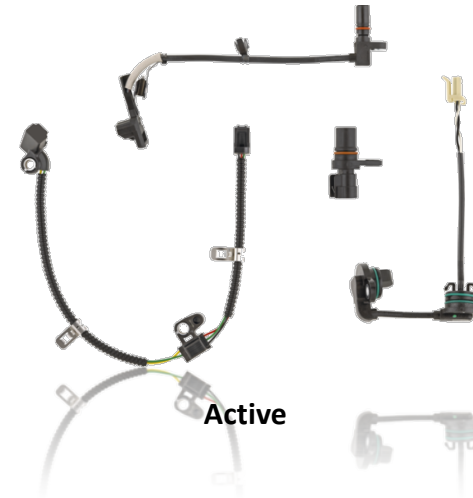
**BOURNS**<sup>®</sup> *Automotive Division*

# Speed Sensors

## Transmission Speed Sensors

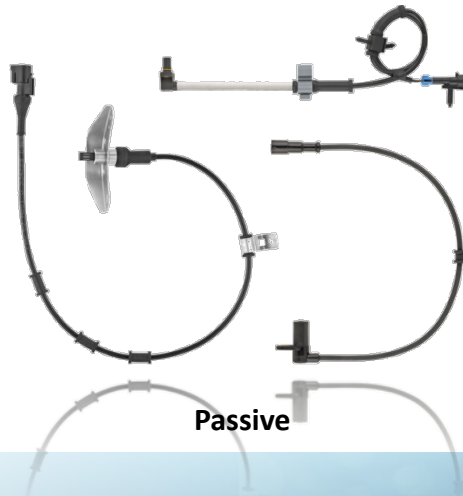


Passive

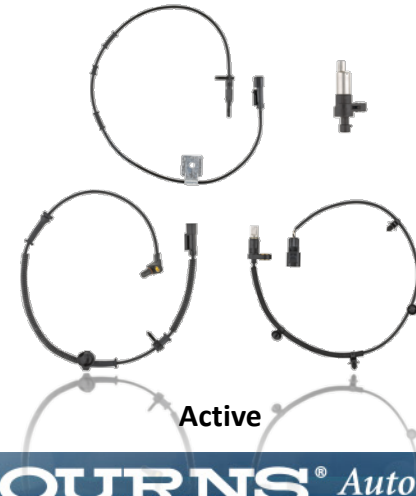


Active

## Wheel Speed Sensors



Passive



Active

# Speed Sensors: Wheel Speed



## Bearing mounted sensors

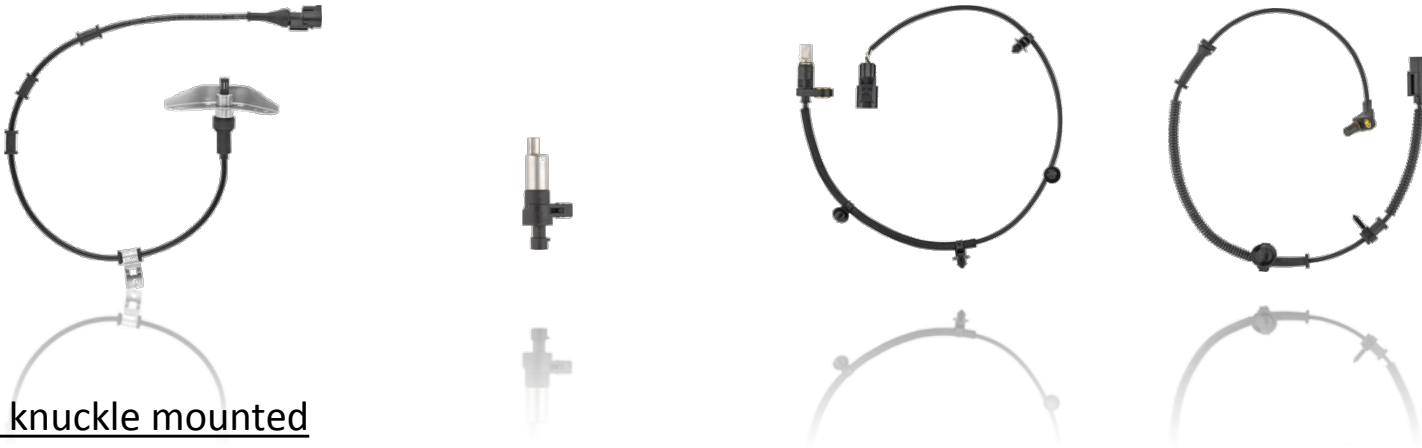
- Mounts on bearing hub, senses off target mounted between bearing rows
- Active & passive sensors



## Axle mounted sensors

- Sensors mount to axle tube and sense off target ring mounted to axle shaft
- Both VR (multi-pole) and active (HE) sensing technologies

# Speed Sensors: Wheel Speed



## Discrete, knuckle mounted

- Sensor is mounted to knuckle or brake backing plate and reads target mounted to hub, rotor or half shaft
- Side-read and end-read active and passive (VR) sensors
  - single and multi-pole VR
  - Hall and MR based active
- Able to sense both ferrous and magnetically encoded targets
- Cabled and integrated connector versions

# Speed Sensors: Powertrain



- Rotational speed sensing for transmission, transfer case and driveline applications
- Passive (VR) and active sensors, including Hall effect and AMR sensing technology, 2-wire and 3-wire outputs

# Transfer Case Speed Sensors



## **Application:**

The sensor is mounted on the external transfer case housing and measures the rotational speed of the shaft. The sensor is electrically interfaced to the engine control module which utilizes the speed information to ensure optimal powertrain management.