Bourns® Automotive Product Focus

Speed Sensors
Speed Sensors

Transmission Speed Sensors

Passive

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 drive line applications
- Passive (VR) and active sensors, including Hall effect and AMR sensing technology, 2-wire and 3-wire outputs
Transmission Position Sensors

Application:
The sensor incorporates a sensor assembly of four multi-axis hall devices. These devices measure the position of the target magnet associated with each fork assembly and provide output to the transmission control module via linear analog signal. The sensors use a molded and potted carrier/housing design. The IC device incorporates a bypass capacitor for filtering and EMC protection.
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.