

Vehicle Sensors

90360 Series

WHEEL TORQUE SENSOR

This telemetry based wheel torque sensor is used to measure the torque, speed, and temperature of tire/brake systems without the need for wheel rim modifications or anti-rotation brackets. The 90360 series consists of three primary components: The torque sensor, vehicle adapter plates to integrate the sensor, and the digital FM telemetry to transmit and process signals. All output signals are conditioned to a high level analog output.

FEATURES

- Non-contact signal transmission.
- High level analog outputs for torque, speed, and temperature (2 temp channels).
- High extraneous load carrying capabilities.
- RS-232 serial output (torque only).
- On-board shunt calibration and power switch.
- 9V Battery powered transmitter.
- Vehicle adapter plates with minimal centerline offset (no rim modifications).
- Custom wheel rims available to maintain tire centerline.
- Custom capacities and configurations available.

SPECIFICATIONS

Typical full scale loads 7,000in-lbs to 60,000inlbs
 Maximum rpm 1200
 Temperature reading range (RTD based) -100 to +500° C
 Analog output (receiver) 0 to +/- 5V (FS)
 Sensor low pass filter 300Hz, 4-pole Butterworth type
 Sensor Hysteresis 0.25% of full scale
 Sensor Non-linearity 0.25% of full scale
 Sensor signal sample rate 950 Hz
 Cross-talk <2% full scale



Wheel Sensor w/ Tire



System Components

