

Active Wheel-Speed Sensors

New solutions help lower costs and reduce target size by 50%

Why Active Wheel-Speed Sensors?

Flexibility. Reliability. Small size. And more. Here are the details:

- Necessary for advanced chassis systems (vehicle stability control, navigation, traction control)
- Reflect chassis system changes, which are migrating to active components
- Provide better EMI immunity due to current signal
- Increase reliability as shown by FMEA
- Offer high resistance to magnetic field variations
- Offer high resistance to electrostatic discharge
- Feature continuous operating range (-40°C to 170°C)
- Provide more capability for the same price as variable reluctance sensors



Active back-biased wheel-speed sensor is a drop-in alternative to your current solution



Why Choose Honeywell Sensors?

You Get Unique Features and Benefits:

- **Two pulses per pole pair** — double frequency output in magnetoresistive version helps you:
 - Lower costs, because you need fewer pole pairs
 - Reduce system size, since your target can be 50% smaller
- **Most robust package on the market** helps ensure reliable performance
- **Sensor diagnostics** for air gap and sensor failure, increasing reliability and functionality
- **True zero speed/directional indication** for rollback detection or electronic parking brake, increasing functionality and flexibility
- **Multiple solutions** — both Hall-effect and magnetoresistive technologies meet or exceed market requirements for high accuracy, repeatability, and high temperature



Wheel-speed sensing has been revolutionized with this innovative, active approach. Let Honeywell's newest solutions pave the way for even more system improvement!

A Global Company with Solutions, Service, Support

Honeywell Sensing and Control has been providing reliable, on-time sensing and switching solutions to the automotive industry for over 20 years. Using Malcolm Baldrige and QS 9000 criteria, and continuously meeting customer demands for technological advancements, we have met industry requirements for a wide variety of system-critical automotive applications, such as engine management, transmission control, and motor control.

That's why we've continued to be a leading manufacturer of active speed/position sensors. In fact, a substantial number of vehicles throughout the world incorporate Honeywell technology.

When you work with Honeywell Sensing and Control you get:

- A global customer base — manufacturers on every continent rely on our solutions
- Standardized production due to building-block uniformity, which helps insure higher reliability and on-time delivery

- Service support capabilities:
 - Validation Test Lab and EMC Lab
 - Materials Engineering Lab
 - Failure Analysis Lab
 - Model Shop/Rapid Prototyping
 - Magnetic Modeling
 - Finite Element Analysis
 - Mold Flow Analysis
- Vertically integrated automotive operations, for a total solution:
 - IC design/fabrication/packaging/testing
 - Printed circuit board design and surface mount population
 - Thick-film design and clean room manufacturing
 - Automated assembly and test
 - Stamped metal parts capability
 - Plastic mold design and fabrication
 - Special equipment design and manufacturing



*Active Magnetostrictive
Wheel-Speed Sensor,
Final Package*



*Active Back-Biased
Wheel-Speed Sensor,
Final Package*

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