

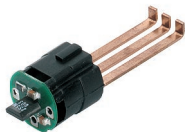
Active Transmission Sensors

New solutions help lower costs and increase application flexibility

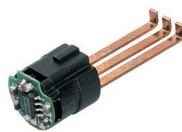
Why Active Transmission Sensors?

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

- Speed sensing as well as speed/direction sensing
- Drive mode/shift position sensing
- General position sensing
- EMC for harsh environments
- Multiple options to meet your needs:
 - Fully encapsulated sensors for complete solutions
 - Building blocks to integrate directly into your control module
- Application assistance to tailor the appropriate technology to your needs
- Operating range from $-40\text{ }^{\circ}\text{C}$ to $150\text{ }^{\circ}\text{C}$



Active magnetoresistive speed sensor building block

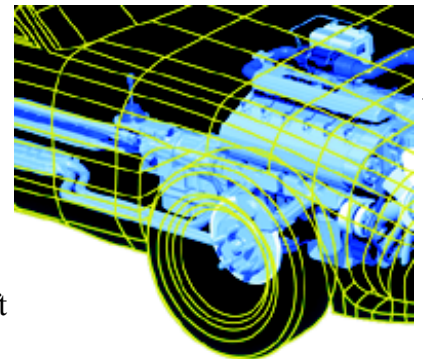


Active Hall-effect transmission sensor building block

Why Choose Honeywell Sensors?

You get unique features and benefits:

- Multiple solutions—both Hall-effect and magnetoresistive technologies meet or exceed market requirements for high accuracy, repeatability, and high temperature
- Full product portfolio:
 - Hall-effect speed sensors
 - Magnetoresistive speed sensors
 - Hall-effect and magnetoresistive shift position sensors
 - Hall-effect speed/direction sensors
- Two pulses per pole pair in magnetoresistive version—double frequency output 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



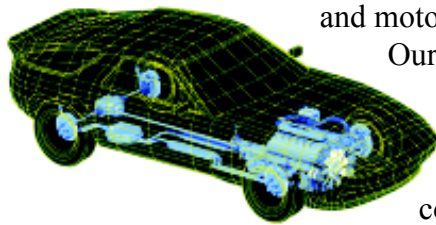
Transmission sensing has been

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 provides reliable, on-time sensing and switching solutions to the automotive industry.

Using Malcolm Baldrige, QS 9000, and Six Sigma Plus criteria, as well as continuously meeting customer demands for technological advancements, we have met industry requirements for a wide variety of system-critical automotive applications. Engine management, transmission control, and motor control are just a few.



Our solutions help you improve fuel efficiency, reduce pollution, and enhance operator comfort and convenience.

That's why we've continued to be a leading manufacturer of active sensors. In fact, a substantial number of vehicles throughout the world incorporate Honeywell technology—we serve manufacturers on every continent.

When you work with Honeywell Sensing and Control you get:

- The quality levels demanded by Six Sigma Plus
- 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 magnetoresistive speed sensor building block



Active back-biased sensor final package



Active Hall-effect transmission sensor building block

For more information, contact Honeywell Sensing and Control

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