

Active Camshaft/Crankshaft Sensors

Reduce time-to-market and increase application flexibility with proven solutions: building blocks or final-packaged sensors

Why Active Cam/Crank Sensors?

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

- Speed and position sensing
- EMC protection for harsh environments
- Multiple options to meet your needs:
 - Building blocks to integrate directly into your final package
 - Final-packaged sensors for complete solutions
- Application assistance helps tailor the appropriate technology to your needs
- Operating temperature range from $-40\text{ }^{\circ}\text{C}$ to $150\text{ }^{\circ}\text{C}$ with excursions to $170\text{ }^{\circ}\text{C}$
- True Power ON alternative improves engine performance
- A range of accuracies to suit multiple needs
- Sealing to ensure reliability in harsh environments
- Applicable in a multitude of engine position applications

Why Building Blocks?

Automotive on-board sensors are manufactured in high volume using a modular approach to help streamline the production process. Components are housed in “building blocks” that contain the magnetic and electronic contents. These are easily assembled into specialized packages that include customer-specific mounting and electrical connection features.



Our innovative approach gives you:

- Proven solutions
- Increased reliability
- Reduced development time-to-market
- Reduced risk on new product design configurations
- Lower tooling costs for final sensors, lower total investment
- Highly engineered sensors; lowest total-cost solutions
- Savings through non-repetitive validation testing

Why Choose Honeywell Sensors?

You get unique features and benefits:

- **Full product portfolio provides multiple solutions:**
 - Hall-effect position sensors
 - Magneto-resistive position sensors
- **EMC** provides protection in harsh automotive environments
- **Most robust package on the market** helps ensure reliable performance—both Hall-effect and magneto-resistive versions meet or exceed market requirements for high accuracy, repeatability, and high temperature, providing quality you can count on



Honeywell sensors are widely used for camshaft and crankshaft position sensing.

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 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. 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.



For over 25 years, Honeywell has been providing reliable sensing solutions to automotive manufacturers. The cam and crank position sensors above help customers enhance their systems' pollution control, fuel efficiency, and ignition timing.

When you work with Honeywell Sensing and Control you get:

- The quality levels demanded by Six Sigma
- 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
 - On-site plating
 - Plastic mold design and fabrication
 - Special equipment design and manufacturing



For more information, contact **Honeywell Sensing and Control**

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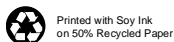
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