

## News Release

**Press Contacts:**

Robyn Seykora  
Honeywell  
763-954-5378  
[robyn.seykora@honeywell.com](mailto:robyn.seykora@honeywell.com)

Mark Shapiro  
SRS Tech PR  
619-249-7742  
[mshapiro@srs-techpr.com](mailto:mshapiro@srs-techpr.com)

### **HONEYWELL INTRODUCES THE INDUSTRY'S FIRST NANOPOWER ANISOTROPIC MAGNETORESISTIVE SENSOR INTEGRATED CIRCUITS**

- *High sensitivity allows design engineers to reduce system costs*
- *Nanopower allows for use in battery operated equipment with extremely low power requirements*
- *Solid state, non-contact design provides a reliable, durable alternative to reed switches*

MINNEAPOLIS – May 19, 2014 - [Honeywell](http://www.honeywell.com) (NYSE:HON) today introduced the industry's first Nanopower Anisotropic Magnetoresistive Sensor ICs that provide the highest level of magnetic sensitivity (as low as 7 Gauss typical) while requiring nanopower (360 nA). When compared to other widely used magnetic technologies, these sensors offer design engineers a number of advantages.

Smaller and more durable and reliable than reed switches, at the same sensitivity and essentially the same cost, the new Nanopower Series Magnetoresistive Sensor ICs are ideal for battery powered applications where previously only reed switches could be used due to very low power requirements and large air gap needs.

Compared with Hall-effect sensors, the new Nanopower Series Magnetoresistive Sensor ICs' higher sensitivity can allow the ability to sense air gaps two times the distance of Hall-effect sensors. The higher sensitivity improves design flexibility and can offer significant application cost savings by utilizing smaller or lower strength magnets.

The Nanopower Series Magnetoresistive Sensor ICs are designed for use in a wide range of battery-operated applications including water and gas meters, electricity meters, industrial smoke detectors, exercise equipment, security systems, handheld computers, scanners, as well as

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white goods such as dishwashers, microwaves, washing machines, refrigerators and coffee machines, and medical equipment such as hospital beds, medication dispensing cabinets, infusion pumps, and consumer electronics such as notebook computers, tablets, and cordless speakers.

“Due to the significant price increases for rare earth magnets, design engineers using Hall-effect sensors have been looking for ways to decrease the total cost of design by using less magnetic material, or moving to a more common magnet in their applications,” said Josh Edberg, senior product marketing manager for Honeywell Sensing and Control. “Design engineers are also looking for an alternative to reed switches to reduce size and increase quality and durability, while maximizing battery life. Honeywell’s new Nanopower Series Magnetoresistive Sensor ICs are ideal for these battery powered applications due to their high sensitivity and nanopower.”

The Nanopower Series is available in two magnetic sensitivities:

- Ultra-high sensitivity SM351LT: 7 Gauss typical operate, 11 Gauss maximum operate, very low current draw (360 nA typical)
- Very high sensitivity SM353LT: 14 Gauss typical operate, 20 Gauss maximum operate, very low current draw (310 nA typical)

Omnipolarity allows the sensor to be activated by either a north or south pole, eliminating the need for the magnet polarity to be identified, simplifying installation and potentially reducing system cost. The push-pull (CMOS) output does not require external resistors, making it easier and more cost-effective to operate. The non-chopper stabilized design eliminates electrical noise generated by the sensor. The subminiature SOT-23 surface mount package, supplied on tape and reel (3000 units per reel), is smaller than most reed switches, allowing for use in automated pick-and-place component installation and can reduce production costs.

#### **Additional Information**

- [Download the product datasheet](#)
- [Watch the product overview video](#)
- [Watch the product applications video](#)
- [For additional product information](#)

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Honeywell Sensing and Control is a leading global supplier of custom-engineered sensors, switches, machine safeguarding and other devices that offer enhanced precision, repeatability and durability to a variety of original equipment manufacturing applications across the medical, industrial, transportation, aerospace, and test and measurement segments. For more news and information on Honeywell Sensing and Control, please visit <http://sensing.honeywell.com>.

This release contains certain statements that may be deemed "forward-looking statements" within the meaning of Section 21E of the Securities Exchange Act of 1934. All statements, other than statements of historical fact, that address activities, events or developments that we or our management intends, expects, projects, believes or anticipates will or may occur in the future are forward-looking statements. Such statements are based upon certain assumptions and assessments made by our management in light of their experience and their perception of historical trends, current economic and industry conditions, expected future developments and other factors they believe to be appropriate. The forward-looking statements included in this release are also subject to a number of material risks and uncertainties, including but not limited to economic, competitive, governmental, and technological factors affecting our operations, markets, products, services and prices. Such forward-looking statements are not guarantees of future performance, and actual results, developments and business decisions may differ from those envisaged by such forward-looking statements. We identify the principal risks and uncertainties that affect our performance in our Form 10-K and other filings with the Securities and Exchange Commission.

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