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**"Spin" Back**


 Daylight Saving Time ends Sunday, November 1. "Spin" your clocks back an hour.

**In the News**

NVE's wave of revolutionary new products was highlighted in a recent article, "[Spintronics Pioneer NVE Introduces New Magnetic Sensing Capabilities](#)" in *Magnetics Business and Technology*.

An excerpt: "Spintronics pioneer NVE has introduced two new devices that bring powerful sensing capabilities to design engineers."

**Holidays**

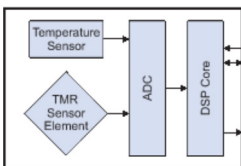
 NVE will be **open** on Veterans' Day (Wednesday, November 11).

We will be **closed** Thursday and Friday, November 26 and 27 for the Thanksgiving holiday.

Product support is available 365 days a year, including holidays, at: [sensor-apps@nve.com](mailto:sensor-apps@nve.com) or [iso-apps@nve.com](mailto:iso-apps@nve.com)

**Smart Magnetic Sensors**

NVE's groundbreaking new array of Smart Magnetic Sensors is the broadest line in the industry, including Smart Magnetometers and Smart Angle Sensors.



Key **features** of all NVE Smart Sensors include:

- TMR or GMR sensor elements
- Magnetometer or angle sensor configurations
- SPI, I<sup>2</sup>C, or application-specific interfaces
- Factory calibrated
- Internal temperature compensation
- 2.2 to 3.6 volt supplies
- -40 to 125 °C temperature range
- Ultraminiature 2.5 x 2.5 x 0.8 mm TDFN6 package

**SM-Series Smart Magnetometers**

Key **Smart Magnetometer** features include:

- SPI or I<sup>2</sup>C interfaces
- Optional digital threshold outputs
- In-plane sensitivity-more usable than Hall effect
- Up to 24-bit resolution
- Accuracy up to 0.3% FS
- Up to 15 kSps sample rate

**Applications** include:

- Current sensing
- Proximity sensing
- Automotive applications
- Cylinder position sensing
- Security and intrusion detection

Five Smart Magnetometer part types are [in stock](#) for immediate delivery:

Part Number	Field Range	Accuracy	Speed	Outputs	Pkg.
<a href="#">SM124-10E</a>	1 mT	5%	10 kSps	I <sup>2</sup> C; Digital Threshold	2.5 x 2.5 mm DFN6
<a href="#">SM125-10E</a>	4 mT	5%	10 kSps		
<a href="#">SM225-10E</a>	15 mT	2%	15 kSps	SPI	
<a href="#">SM228-10E</a>	15 mT	2%	15 kSps	I <sup>2</sup> C; Digital Threshold	
<a href="#">SM324-10E</a>	2 mT	0.3%	300 Sps		

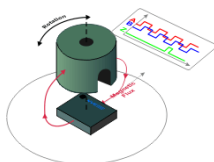
**ASR-Series Smart Angle Sensors**

Key smart **angle sensor** features include:

- SPI, I<sup>2</sup>C, ABZ, or PWM interfaces
- 0.2° accuracy
- Wide 6–20 mT field range for mechanical latitude
- Fast 12.5 kSps sample rate

Smart angle sensor applications include:

- Rotary encoders
- Robotics
- Motor control
- Automotive applications



Three Smart Angle Sensor models are available:

Part Number	Outputs	Features
<a href="#">ASR002-10E</a>	SPI	Chip Select input
<a href="#">ASR012-10E</a>	I <sup>2</sup> C; PWM	PWM output
<a href="#">ASR022-10E</a>	ABZ / Direction	Encoder interface

**Buy Online**  
\$9.95 shipping

Smart Sensor [breakout boards](#) and [evaluation kits](#) are also available.

**Upcoming Conferences**

**MMM2020** Conference on Magnetism and Magnetic Materials (virtual)  
Virtual Conference November 2 to 6, 2020.