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NVE is a Top Minnesota Company

NVE moved up from number 68 to number 64 in the new *Minneapolis / St. Paul Business Journal* rankings of Minnesota's Top 75 Public Companies [More »](#)

New on YouTube

[ABZ Noncontact TMR Encoder Sensor](#)

[AET500 Magnetic Linear Encoder Demonstration](#)

[The AHK991 High-Field TMR Switch for Security](#)

[Mechatronic Xylophone using ASR002 Angle Sensors](#)



NVE will be closed May 25 for Memorial Day.

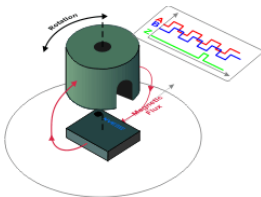
COVID-19 Update

NVE continues to operate effectively as a Critical Sector business under Minnesota's Stay at Home Order. [Sales](#) and [technical support](#) are fully staffed to assist you. We ship [online orders](#) within 24 hours.

You can count on us. Virtually all of our part types are in stock and we maintain large inventories of raw materials and finished goods to avoid potential shortages.

NEW ABZ Noncontact TMR Encoder Sensor

Now you can replace clunky, fragile ABZ optical encoders with noncontact TMR encoders that have wide mechanical tolerances and contamination immunity.



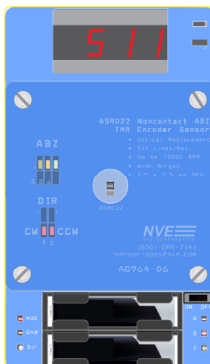
ASR022 sensors provide precise pulses indicating angular motion, and are smaller, faster, more accurate, and lower power than other magnetic encoders.

Key ASR022 features include:

- Ultraminiature 2.5 x 2.5 x 0.8 mm DFN package
- 12500 samples/second
- 512 virtual lines (128 cycles) per revolution
- Flexible 2.2 to 3.6 V supply range
- Low 4 mA typical supply current
- Robust airgap and misalignment tolerances
- Full -40 °C to 125 °C operating range

Demonstration Board

The AG964-07E Demonstration Board has everything you need to test and evaluate the ASR022:



The board includes:

- ASR022 Sensor
- A four-digit display to indicate rotation
- Part # 12426 split-pole Alnico 5 round horseshoe magnet
- LEDs for A, B, Z, and Direction outputs
- Plastic magnet locating fixture
- Powered by two AAA batteries (included)

Part of a Groundbreaking Family

The ASR022 is part of our industry-leading line of TMR smart angle sensors, which also includes the SPI [ASR002](#) and the I²C [ASR012](#).

Sensors and evaluation kits are available now for immediate delivery:

Part Number	Evaluation Kit	Resolution	Outputs
ASR022-10E	AG964-07	512 lines	ABZ; Dir
ASR012-10E	AG963-07	0.2°	I ² C; PWM
ASR002-10E	AG956-07		SPI

[ASR022 Demonstration](#)

[Download the ASR022 Datasheet »](#)

Buy Online
\$9.95 shipping

Upcoming Exhibitions

Power Conversion and Intelligent Motion (PCIM), July 28 to 30 (originally scheduled for May 5 to 7), Nürnberg, Germany.



NVE distributor Hy-Line Power Components (stand 9-419) will display our products, including the new [IL6xxCMT1 Ultrahigh transient immunity Isolators](#).



Sensors Expo and Conference
June 23 to 24, San Jose, Calif.,
Booth 1628.