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New Catalogs

Our popular sensor and isolator short-form catalogs have been updated to include a number of new products.

Each catalog is eight pages chock-full of essential information.

[Sensor Catalog »](#)

[Isolator Catalog »](#)

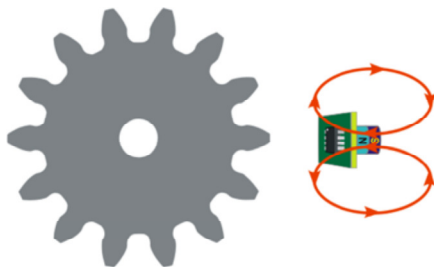
Holiday

NVE will be closed **Monday, September 6** for Labor Day.

TMR Gear-Tooth Sensors

NVE introduced the world's first practical non-inductive gear-tooth sensors 25 years ago, and is revolutionizing the market again with the world's first Tunneling Magnetoresistance (TMR) gear-tooth sensors.

NVE's ABT-Series Gear-Tooth Sensors are versatile analog sensors, typically used with back-biasing magnets to encode the position of a ferrous gear:



The sensors have two channels to detect direction.

Key **features** include:

- 0.001° resolution
- Large analog peak-to-peak signals
- Operating frequency to 350 kHz
- 150 °C operating temperature

Applications include:

- Motion, speed, and position sensing
- Linear and rotational encoders
- Closed-loop servo systems
- Machine tools
- Automotive sensors

Available Now

Four ABT-Series models are available to match a wide range of gear pitches. All four are [in stock](#) for immediate delivery:

Part Number	Gear Pitch	Package
ABT250-00E	0.6 to 2 mm	MSOP8
ABT375-00E	1 to 3 mm	
ABT500-00E	1.3 to 4 mm	
ABT600-00E	1.6 to 4.8 mm	

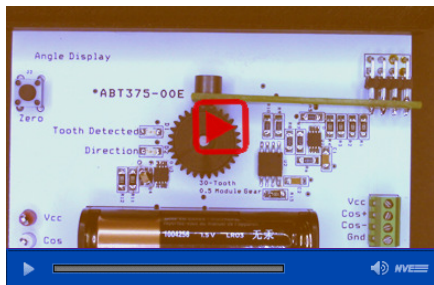
Demonstration Board

The AG972-07E Demonstration Board showcases rotational encoding to a few thousandth of a degree with an ABT375-00E sensor.

The kit includes:

- A 3 by 5-inch (76 by 127 mm) PCB
- An ABT375-00E gear tooth sensor
- An eight-digit display with 0.001° resolution
- Part #12216 ceramic bias magnet
- Powered by two AAA batteries (included)

Here is a demonstration of the remarkable new sensors:



[Download ABT-Series Datasheet »](#)

[Download the Demo Board Datasheet »](#)

[Video Demonstration »](#)

Buy Online
\$9.95 shipping

Tradeshows



NVE will be at **Sensors Expo** September 22 to 23 in San Jose, Calif. It will be our first U.S. face-to-face tradeshow since 2019.