NVE CORPORATION

Sensor and Isolator NEWS

June 2021 *Electrifying News From NVE*

In This Issue

Quick Links

New YouTube Videos

NVE will be closed
May 31
for Memorial Day.

Nanopower TMR Magnetic Switches

NVE's revolutionary family of Tunneling Magnetoresistance (TMR) magnetic switches integrates TMR sensor elements with threshold comparitors for precise swtching and ultralow power.

We recently expanded our product line with two high-sensitivity versions, the ADT924-14E and ADT925-14E.

Sensitive
The new versions provide magnetic operate points as low as 1.5 mT.

Ideal for Battery Operation
ADT-Series sensors operate from 2.4 to 4.2 volts, which is ideal for lithium primary cells, lithium-ion rechargeable batteries, or 3.3-volt supplies.

Ultralow Power
TMR technology provides ultralow power. Typical quiescent supply current is just 0.6 microamps, even with no duty cycling. That's less than the self-discharge rate of lithium batteries, making the new sensors ideal for applications such as utility meters or portable instruments.

Continuous Operation
Continuous operation allows fast switching (20 kilohertz) and avoids switching artifact noise.

Configured as Switches
Outputs are configured as magnetic "switches," turning on when a magnetic field is applied and off when the field is removed. The field can be either polarity, and the magnetic operate point is extremely stable over supply voltage and temperature.

Ultraminiature
ADT sensors are in a 1.1 by 1.1 by 0.35 millimeters (0.043 by 0.043 inch) ULLGA package.

In Stock
Four ADT-Series parts are now available:

Part Type (click for details)	Typical Magnetic Operate Point
ADT925-14E	1.5 mT
ADT924-14E	2.2 mT
ADT923-14E	3.2 mT
ADT922-14E	4.5 mT

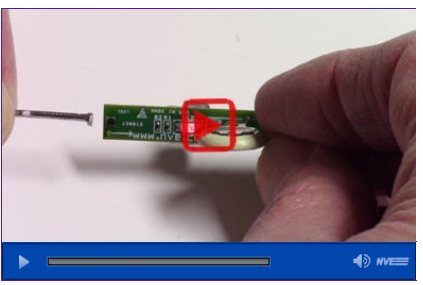
Demonstration Board

The AG040T Demonstration Board has an ADT923-14E sensor and an LED to show the sensor output. It is is powered by a three-volt lithium coin cell (included). The sensor's low quiescent power allows the battery to last at least several years with occasional LED use. A miniature bar magnet is included to activate the sensor. The board is just 1.57 by 0.25 inches (40 by 6 millimeters).

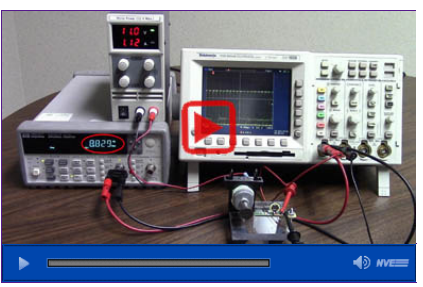
Download the ADT Datasheet »

Download the Demo Board Datasheet »

Here's a demonstration of the remarkable sensitivity of the new ADT925-14E sensor:



And a demonstration of the ridiculously low power and the high speed of ADT-Series parts:



Buy Online
$9.95 shipping