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Isolator Catalog



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NVE In the News

NVE was featured in an *Investor's Business Daily* in story in June titled "Nanotechnology Firm Seeks New Uses For Tiny Sensors, Couplers."

[<Links to this and other articles about NVE>](#)

Awards & Accolades

NVE Chairman Terrence Glamer ranked number six on the *Minneapolis/St. Paul Business Journal's* list of 50 Hardest-working Directors.

[<More Accolades>](#)

Holiday



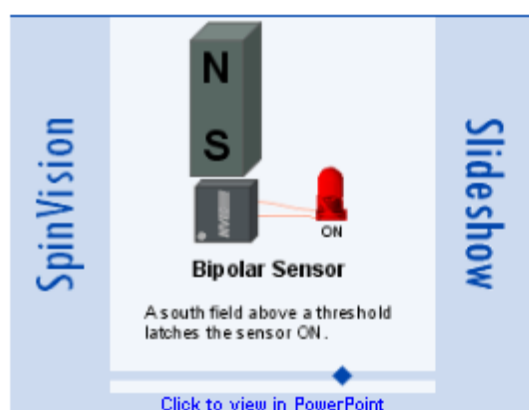
NVE will be closed for business Friday, July 3

in observance of U.S. Independence Day. Orders will be processed the following Monday.

Products

Omnipolar vs. Bipolar Magnetic Sensors

NVE offers both [omnipolar](#) and [bipolar sensors](#). This slideshow illustrates the difference:



Omnipolar vs. bipolar sensors

Most NVE sensors are **omnipolar**, meaning they operate with either a north or south magnetic field and release when the field strength drops below a certain threshold. Omnipolar parts are used in a wide range of applications.

Bipolar sensors have opposite polarity magnetic operate and release points. They are ideal for magnetic encoders that have alternating north/south poles, or other applications where one polarity of field is required to turn the parts on and the opposite polarity to turn them off.

Company News

ISO 9001:2008 Certification



NVE was recently certified under the new ISO 9001:2008 standard following a rigorous external audit. Customer surveys continued to give NVE very high marks for product quality and on-time shipments.

NVE has been ISO certified since 1997.

ISO 9001:2008 sets requirements to achieve customer satisfaction through consistent products and services. It also includes a requirement for the continual improvement of the Quality Management System.

The scope of NVE's Quality Management System includes design, development and manufacture of semiconductor-based magnetic/ semiconductor products, processes, systems, and services.

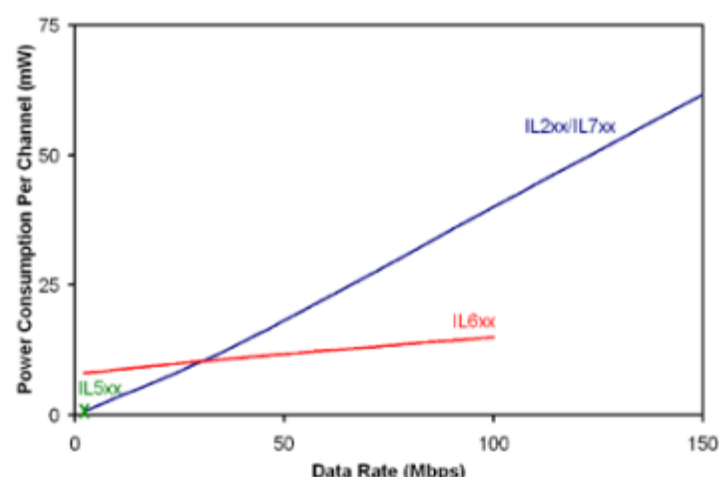
Application Corner

Isolator Power Consumption

By [Sandy Templeton](#)

Director, Isolator Product Development and Applications

Because of their different architectures, NVE's three digital isolator families have different dynamic power consumption profiles. IL600 Series isolators are similar to optocouplers. They use a 5 mA coil current, but the dynamic power consumption component is very low. IL500 and IL200/700 Series isolators are edge-sensitive devices, drawing current on transitions but with low quiescent power consumption. The graph below shows an overview of per-channel power consumption with 3.3 V supplies.



Isolator No-Load Power Consumption Per Channel at 3.3 V

IL500 Series isolators have a maximum data rate of 2 Mbps. IL200/700 Series isolators have unsurpassed speed and have the lowest power consumption up to approximately 30 Mbps. Above 30 Mbps, the IL6xx becomes the lowest average power user.

[<More Info \(.pdf, Application Bulletin No. 16\)>](#)

[<Isolator Selector Guide>](#)