



In This Issue

- [More Low-Power Isolators](#)
- [IATF16949](#)
- [Recent Exhibitions](#)



Quick Links

- [Sensor Selector Guide](#)
- [Isolator Selector Guide](#)
- [Online Store](#)
- [Contact Us](#)
-  [Twitter](#)
-  [YouTube](#)

Document Updates

- [Analog Sensor Datasheet](#) AAL-Series sensor bandwidth increased to 500 kHz.
- [ADL-Series Nanopower digital sensor datasheet](#) even lower power consumption specifications.

New YouTube Videos

-  [Sensors Midwest demonstrations](#)
-  [The world's first smart TMR magnetometer](#)

Holidays

NVE will be closed Monday, December 24, Tuesday, December 25, Monday, December 31, and Tuesday, January 1.

More Low-Power Isolators

With the addition of the two-channel and four-channel one-direction versions, low-power TMR isolators are now available in the all the popular channel configurations.



Typical IL01x-Series total quiescent current is just 0.3 mA per channel, one-fourth the power of our flagship products.



The new devices use NVE's patented low-power spintronic Tunneling Magnetoresistance (TMR) technology.



A unique ceramic/polymer composite barrier provides excellent isolation, best-in-class barrier resistance, and virtually unlimited barrier life.



The new parts are low power and provide remarkable performance:

- 10 Mbps guaranteed maximum data rate
- No carriers or clocks for low EMI
- 100 teraohm insulation resistance
- 2.5 kV isolation
- 44000 year barrier life
- -40°C to +100°C



The four-channel versions use NVE's unique True 8™ wide-body SOIC-16 package with full 8-millimeter creepage in accordance with IEC60601.



Applications include:

- 4-20 mA loop-powered controls
- Battery-powered instruments
- SPI

Five popular IL01x channel configurations are **in stock** for immediate delivery (click for details and pricing):

Part #	Transmit/Receive Channels	Total Supply Current*	Package	Availability
IL011-3E	2/0	0.6 mA	SOIC-8	New!
IL012-3E	1/1			In Stock
IL015E	4/0	1.2 mA	0.3" SOIC-16	New!
IL016E	2/2			In Stock
IL017E	3/1			In Stock

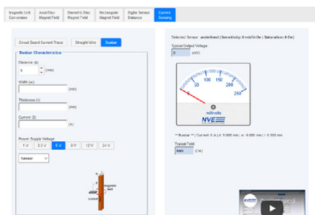
*Typical Iq1 + Iq2; Vdd1 = Vdd2 = 3.3V

[Download the IL01x Datasheet >](#)

Buy Online
\$9.95 shipping

New Web Apps for Current-Sensing

Our wildly popular [current-sensing Web app](#) now covers wires and busbars:



NVE's free, easy-to-use Web apps use finite-element magnetic modeling to make complicated calculations simple.

Existing Web apps include:

- Disc Magnet Field Strength vs. Distance
- Disc Magnet Field Strength vs. Distance (Diametric Magnet)
- Rectangular Magnet Field Strength vs. Distance
- Digital Sensor Switching vs. Distance

IATF 16949 Conformance



NVE has earned a letter of conformance in accordance with the automotive certification scheme for IATF 16949.

The letter certifies that NVE has established and applies a Quality Management System for Design and Manufacturing of semiconductor magnetic sensors and isolator components for the automotive industry.

The rigorous IATF 16949 standard stresses continuous improvement with the goal of preventing defects and waste throughout the supply chain.

NVE makes a number of analog, digital, and smart magnetic sensors ideal for automotive applications including proximity sensing, current sensing, rotation sensing, and angle sensing.

Recent Exhibitions

NVE distributor K.K. ROCKY exhibited NVE sensors and isolators at **Embedded Technology & IoT Technology 2018** in Yokohama, Japan.

 **electronica** NVE distributor HY-LINE showed NVE isolators at **Wireless Congress: Systems & Applications** in Munich, Germany.

If you missed the shows you can see some of our demonstrations [here](#).