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### Faster Videos

NVE's entertaining and highly-acclaimed technical videos are now in a faster, more compatible format. If you had trouble watching them before, [try them now](#).

### Recent Exhibitions

NVE distributor HY-LINE Sensor-Tech showed NVE sensors and isolators at **Sensor+Test** in June. [GMR Switch™ Precision Digital Sensors](#) were especially popular.

### Awards & Accolades

NVE Chairman Terrence Glamer was included in the recently-announced *Minneapolis/ St. Paul Business Journal* 2011 Top 25 List of Hardest-working Board Directors. [-More Accolades-](#)

### Fun Facts

**A lot of nerve...**  
 IsoLoop Isolators are more than 10,000 times faster than electrical synapses, the fastest known links between nerve cells (10 ns typical propagation delay for IL700-Series Isolators compared to 200 µs synaptic delay for an electrical synapse). [-More Fun Facts-](#)

### Independence Day

NVE will be closed Monday, July 4.

## Featured Product

### Narrow-Body SOIC-16 Isolators

**IsoLoop-3** The world's densest isolators, IsoLoop "Dash Three" Isolators provide a full line of unique 0.15", narrow-body SOIC-16 isolators—half the size of other isolators.

Like all IsoLoop Isolators, these products feature minimal signal distortion, wide temperature range, low power consumption, and unlimited life. Narrow-body isolators are available in a variety of input, output, and channel configurations, as well as a full line of isolated RS-485/RS-422/PROFIBUS transceivers.



Key narrow-body isolator features include:

- 0.15", 16-pin SOIC
- Passive or digital inputs
- Three, four, or five channels or isolated RS-422/RS-485
- IEC 61010-2001 approved
- 125°C (IL700T-Series)

Nearly 20 Dash Three part types are [in stock](#) and available for immediate delivery with no minimum order.

Part Number	Mbps Data Rate	Tx/Rx Chan	Input	Key Features	Max. Temp.
IL514-3	2	2/1	Digital	DC correct; Output Enable	85°C
IL515-3	2	4/0	Digital	DC correct; Output Enable	85°C
IL516-3	2	2/2	Digital	DC correct	85°C
IL613-3	100	3/0	Passive		85°C
IL614-3	100	2/1	Passive	One Output Enable	85°C
IL715-3	110	4/0	Digital		100°C
IL716-3	110	2/2	Digital		100°C
IL717-3	110	3/1	Digital		100°C
IL715T-3	110	4/0	Digital	High Temperature	125°C
IL716T-3	110	2/2	Digital	High Temperature	125°C
IL717T-3	110	3/1	Digital	High Temperature	125°C
IL260-3	110	5/0	Digital	Five Channel	85°C
IL261-3	110	4/1	Digital	Five Channel	85°C
IL262-3	110	3/2	Digital	Five Channel	85°C
IL3122-3	5	RS-422	Passive	32 nodes; 15 kV Bus ESD	85°C
IL3185-3	5	RS-485	Passive	32 nodes; 15 kV Bus ESD	85°C
IL3222-3	5	RS-422	Passive	Fractional Load (256 nodes)	85°C
IL3285-3	5	RS-485	Passive	Fractional Load (256 nodes)	85°C
IL3422-3	20	RS-422	Passive	32 nodes; 15 kV Bus ESD	85°C
IL3485-3	20	RS-485	Passive	32 nodes; 15 kV Bus ESD	85°C

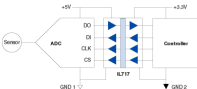
[Buy Online \\$8.95 shipping](#)

## Application Corner

### Power Supplies Declare Independence

Power supplies need their independence, and IsoLoop Isolators can isolate and level-shift between components on different supplies.

The figure below shows a common application using an IL717 to isolate and level-shift data from a 5-volt powered sensor and ADC to a 3.3 V logic controller:



Isolation keeps the two power supplies independent with separate digital and analog ground current paths. This eliminates ground loops, minimizes noise, and improves measurement accuracy.

IL700/IL200-Series Isolators are available in a variety of configurations with up five channels per device. Versions are available in NVE's unique, ultra-dense 0.15" narrow-body SOIC package (see [featured products](#) above).

So use isolation and declare your independence.

[-More Level Shifting Info \(pdf\): Application Bulletin No. 41-](#)

[-Isolator Selector Guide-](#)