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New Patents

Patent 9,030,200—
"Spin Dependent Tunneling Devices With Magnetization States Based on Stress Conditions."

[Links to NVE Patents >](#)

NVE Growing

NVE recently announced product sales increased 29% in its most recent quarter.

[More Info >](#)

Moving Up

100 Sales growth drove

NVE's impressive move up eight notches in this year's recently-published *Star Tribune 100* rankings of the largest companies in Minnesota.

[More Info >](#)

Featured Products

ULLGA Nanopower Sensors

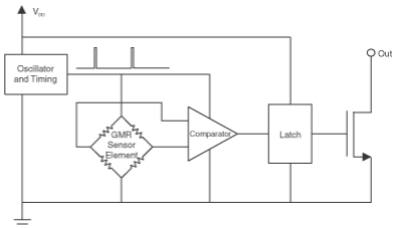
ADL-Series Magnetic Switches are NVE's smallest packaged parts at just 1.1 mm x 1.1 mm x 0.45 mm, and use just nanowatts.

The output is configured as a magnetic "switch," where the output turns 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.

Internally duty cycled versions (the ADL0xx and ADL1xx Series) reduce power consumption. An integrated latch ensures the output is available continuously. Two duty-cycle frequencies are available, offering a tradeoff between update frequency and power consumption. Continuously-operating versions (the ADL9xx Series) are also available.



ADL-Series Sensors fit on the head of a pin.



ADLxxx-14 Functional Block Diagram

Continuously-operating versions consume much less than a milliwatt, while duty-cycled versions use less than a microwatt.

ADL-Series parts are ideal for battery-powered devices such as gas and water meters, portable instruments, or anyplace where extremely low power is required.

Key specifications are:

- 1.1 mm x 1.1 mm x 0.45 mm ULLGA package
- 2.4 - 3.6 V supply voltage
- As low as 72 nW power consumption at 2.4 V
- 20, 28, or 40 Oersted operate points
- Current-sinking output up to 100 μ A
- -40°C to +125°C temperature range

Part Type	Magnetic Operate Point (typ.)	Power Consumption (typ. at 2.4 V)	Update Frequency (typ.)
ADL021-14E	20 Oe	192 nW	55 Hz
ADL024-14E	28 Oe	192 nW	55 Hz
ADL121-14E	20 Oe	72 nW	30 Hz
ADL124-14E	28 Oe	72 nW	30 Hz
ADL921-14E	20 Oe	84 μ W	Continuous
ADL924-14E	28 Oe	84 μ W	Continuous

All of these part types are [in stock](#) and available for same-day shipment, with no minimum order.

Buy Online
\$9.95 shipping

Recent Exhibitions

At **Sensor+Test 2015**, customers "forgot reed switches" and gave the thumbs up to NVE magnetic switches:



At **PCIM Europe**, the company highlighted new MSOP and QSOP Isolators.



At the **Embedded Systems Expo & Conference**, NVE highlighted QSOP and MSOP isolators, and had live angle-sensor demonstrations.