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News Release

For Immediate Release

Novotechnik Announces MB1-3600 Series Non-Contacting Magnetic Sensors That Count Up to 44 Turns and Retain Position Through Power Loss

SOUTHBOROUGH, Mass. — October 29, 2026 — Novotechnik U.S. announces the MB1-3600 Series of non-contacting multi-turn magnetic sensors for industrial and mobile machinery, including a heavy-duty model. The sensors measure up to 44 turns, or 15,840 degrees, and continue counting turns while unpowered. They maintain position accuracy, retain the position value for years, and report it when power is restored.

The MB1-3600 Series is an economical alternative to geared and optical encoders. Its magnetic design has no gears, optics, or batteries, and it is available in solid-shaft and hollow-shaft versions. A heavy-duty model is available for applications with higher shaft loads.

Applications include mechanical engineering, mobile machinery, driveline and steering systems, wire-actuated encoders, gate drives, and motorsports. Depending on configuration, output options include IO-Link, CANopen, and CAN SAE J1939.

The IO-Link version measures position, speed, temperature, and supply voltage. Depending on configuration, position resolution is 16 bits per revolution or 0.01°/LSB. It provides a 1 kHz update rate, linearity of ±1° or better, and repeatability of ±0.1° or better. Programmable settings include zero-point offset, resolution, rotation direction, and operating mode. Condition-monitoring functions track statistical data such as temperature, operating time, supply voltage, and running performance.

Shaft configurations include a 6 mm solid shaft, a 10 mm solid shaft (heavy-duty version), and a 6 mm hollow shaft. The heavy-duty model supports 100 N axial and radial shaft loads and has IP69K housing protection with IP67 shaft-side protection. The other models have IP67 housing protection and IP65 shaft-side protection.

For more information, visit www.novotechnik.com/mb1.

About Novotechnik U.S.

Novotechnik is an international sensor and transducer manufacturing company with U.S. operations headquartered in Southborough, Massachusetts. Since pioneering the introduction of the potentiometer to the general machine engineering sector in the 1950s, Novotechnik has developed contacting and non-contacting position-sensing technologies for motion control applications.

As divisions of the global Siedle Group, Novotechnik and its sister division Contelec develop and produce a wide range of rotary and linear position sensors. These solutions are used across industries including automotive, machine engineering, plastics, medical equipment, hydraulics, pneumatics, and control systems. Novotechnik's operations are ISO 9001 certified.

Photo attached for publication:

- Novotechnik MB1-3600 Series non-contacting magnetic sensors that count up to 44 turns and retain position through power loss

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