PressRelease

eddylab GmbH

New SXL Series: LVDT sensor technology for safety-critical applications

Otterfing, Germany, October 30, 2026. With the SXL series, eddylab expands its portfolio with a robust LVDT system solution for extreme environmental conditions. The hermetically sealed sensors are designed for use inside the containment of nuclear facilities.

The new SXL sensors from eddylab operate on a contactless, inductive measurement principle. This principle is wear-free and guarantees maintenance-free, long-term operation. With graduated measuring ranges from 10 to 400 mm and an operating temperature of up to 400 °C, the series meets the highest standards for precision and robustness.

SXL Series: Designed to meet the requirements of nuclear technology



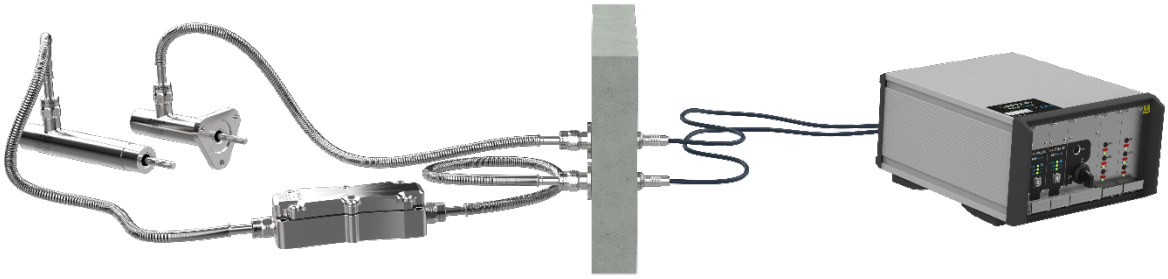
Inorganic LVDT sensors: ultra-precise in extreme environments

For use in nuclear facilities, the SXL series has been developed in accordance with the regulatory requirements of international IEEE and RCC-E standards. The sensors, connecting cables, junction boxes and feedthroughs are hermetically sealed, inorganic in construction and designed to withstand high temperatures, vibration, radiation and seismic loads.

The K1-qualifiable sensor technology is complemented by K3-qualifiable components for use outside containment, including the SXL digital signal conditioner, a heavy-duty 19" rack and an EMC-protected wall-mounted cabinet. The signal conditioner can be installed flexibly up to 200 m from the sensor, for example outside containment in the control room.

This creates a modular and fully coordinated measurement chain, from the sensor and connection technology through to signal processing.

”In the nuclear industry, long-term reliability is essential. At eddylab, we therefore focus not only on individual sensors, but on complete, robust and certifiable measurement chains from the containment building to the control room. Our solutions are engineered for extreme environmental conditions and ensure precise, dependable measurement data throughout decades of operation” emphasizes Christian Schrick, CEO of eddylab GmbH.



The system solution for reliable position measurement under extreme environmental conditions

About eddylab GmbH
eddylab GmbH specializes in the development, design, and production of sensors for the measurement of geometric parameters, including complete system solutions. The eddylab product portfolio includes eddy current and inductive sensors, laser sensors, draw-wire sensors, digital gauges, magnetic tapes, and scales as well as displays, signal converters and other accessories for a wide range of industrial applications. The company's strength lies in the development of application-specific sensor technology. In close cooperation with its customers, eddylab develops high-precision, high-performance sensors that are directly adapted technically and geometrically to customer requirements. eddylab demonstrates special expertise in adapting its sensors to particularly challenging areas of application with high temperatures or high pressure, such as those typically found in the energy sector. To guarantee special industry-specific standards in terms of safety, reliability and quality, eddylab considers MIL-STD standards for military applications, DNV-GL regulations in the maritime sector and IEEE and RCC-E standards for the safety and reliability of electrical systems in the nuclear energy sector.

Further Information: www.eddylab.com

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