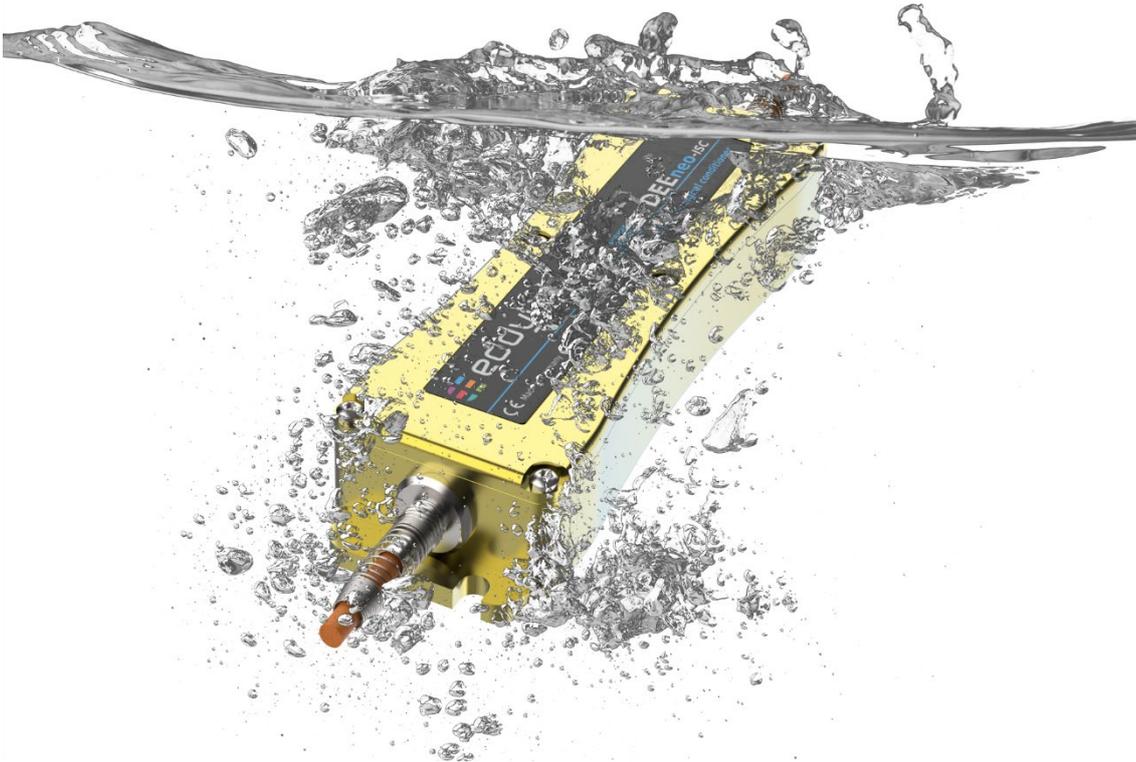


PressRelease

eddylab GmbH

DEEneo-ISC-IP68 – Signal Conditioner with IP68 for Diving Depths up to 100 m



DEEneo-ISC-IP68 | eddylab GmbH

The electronics are built to IP68 protection class and are ideally suited for the reliable processing of LVDT sensor signals in moist, wet, or pressurized applications – whether underwater, outdoors, or in maritime environments.

DEEneo-ISC-IP68 is based on the new DEEneo signal conditioner series, which is specifically designed for operating inductive sensors based on the LVDT principle. The signal conditioner is integrated directly into the sensor cable, allowing for a particularly compact and flexible installation – without a control cabinet, right at the point of use.

Specially Sealed Aluminum Housing IP68 / 10 bar

To reliably protect the sensitive electronic components, eddylab developed a milled, anodized aluminum housing made of a seawater-resistant alloy. A surrounding O-ring between the upper and lower parts of the housing and a special cable entry ensure a permanently sealed connection – certified to IP68 for water depths up to 100 m (10 bar).

Digital Signal Processing for Maximum Precision

The integrated microcontroller enables linearization of the sensor signal, effectively compensating for any linearity deviations. The electronics support all standard LVDT inductive sensors and convert their signals into standardized analog output signals.

Quick Configuration – Directly on the Device or via Software

Basic configuration can be performed using a SET button on the device, for example to define the measurement range limits. For advanced settings, the eddySETUP software is available as a free download. It allows for detailed parameter configuration and activation of additional features such as the integrated cable break detection.

Robust System for Demanding Industrial Environments

"Especially in combination with the extremely durable inductive displacement sensors, this creates a consistently robust measurement system designed specifically for harsh industrial environments," explains Remo Kagerer, Head of Electronics Development at eddylab. *"The high mechanical resilience of the sensors is perfectly complemented by the waterproof and pressure-resistant design of the DEEneo-ISC-IP68 – ensuring maximum reliability even under dirt, moisture, vibration, or temperature fluctuations."*

As of now, DEEneo-ISC-IP68 is available. For further technical details and configuration information, please visit www.eddylab.com.

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.

In order to guarantee special industry-specific standards in terms of safety, reliability and quality, eddylab takes into account 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.

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