

Discover Lika Electronic & Bogen Magnetics innovations at the SPS 2023!

November is the month of the SPS fair in Nuremberg.

Lika Electronic and Bogen Magnetics will attend the upcoming SPS 2023 from 14th to 16th November and will show off their encoder innovations at Booth 325 in Hall 4A.

Lika Electronic will showcase the **EX058-EXM58 series encoders with Ethernet interfaces** among others.

EX058-EXM58 encoders can be equipped with high accuracy **optical or robust magnetic sensing technology**.

They are designed in a complete selection of mechanical versions: solid shaft versions and servo or clamp flange mounting; and blind hollow shaft versions.

The industrial 58 mm flange enclosure enables IP65 protection. The range of the working temperature is comprised between -25°C and +85°C to cover most industrial applications.

The encoders are lightweight and compact and integrate the **Energy Harvesting Technology circuit**.

It enables the multiturn counter to be battery-free and gearless and the risk of mechanical failures to be reduced significantly at the same time.

EX058 & EXM58 encoders can be equipped with the most popular Ethernet interfaces available on the indu-

strial market: Profinet, EtherNet/IP, EtherCAT, POWER-LINK, Modbus TCP, and CC-Link.

They can offer:

- user-friendly Integrated Web Server for easy and quick configuration and diagnostics;
- firmware upgrade capability;
- comprehensive diagnostic functions both via five duo LEDs and via software;
- IP addressing via hardware switches and via software (including DHCP server);
- flexible network architecture compatible with commercially available Ethernet installation options.

They provide singleturn resolution up to 18 bits and multiturn resolution up to 30 bits. They have axial connector outlet. Also the Universal power supply circuit is very useful, it enables an input voltage of +5Vdc +30Vdc.



Motion control and angle measurement have never been easier and more reliable with **Bogen rotary and linear magnetic scales**.

Bogen scales are **available in different sizes and dimensions** and feature high quality materials, high accuracy coding of multiple tracks with a wide choice of widths, diameters, and magnetic materials, axial and radial magnetization, and precisely machined hubs for easy installation by gluing or press-fitting.

They are resistant to dust, cooling lubricants, oils, humidity, contaminants, temperature fluctuations and vibrations and therefore ideal for use in harsh industrial environments.

Production processes at Bogen allow **any magnetic pole pattern** to be created: single or multiple tracks for incremental and absolute measurement, with or without reference mark, various accuracy classes, and more.

Bogen magnetic scales can be as individual as the customer requires.

AKS16-MT is an **absolute multiturn magnetic sensing head**. It is very compact in size, battery-backed for temporary self-sufficient power supply and fits assembly even in confined spaces. Movements of the scale are still detected and position data is counted even when the system voltage has been switched off.

AKS16-MT is the perfect fit for rotary and radial measurements up to 53 mm inner diameter (max. outer diameter 59 mm). It features a singleturn resolution up to 20 bits, the multiturn resolution is up to 18 bits.

The wear-free encoder provides both BISS-C or SSI with Sine/Cosine 1 Vpp outputs. It is resistant to contamination, vibrations, temperature fluctuations, and humidity.

IKP11 high-performance miniature encoder features miniature and lightweight design and is perfect for embedded OEM motion control applications.

This miniature-packaged, robust magnetic encoder is designed for either linear or rotary position feedback and is available as a complete measuring head without housing for integration into motion system designs.

High speed, high reliability and high resolution along with large installation tolerances always ensure quick and cost effective installations.

The IKP11 miniature encoder comes in four different shapes and offers **resolutions between 0.020 and 500 μm** , depending on the pole pitch.

The position information is output in RS-422 or Push-Pull incremental quadrature signals.

IKP11 is also available in the housed version IKS11.

