

New EX058 & EXM58 Ethernet encoders with Energy Harvesting Technology

Lika Electronic has unveiled the new EX058 and EXM58 series of absolute rotary encoders with Ethernet interfaces. They integrate the Energy Harvesting Technology and offer the most popular Ethernet interfaces available on the industrial market.

- Standard Ø 58 mm industrial flange
- Solid and hollow shaft versions
- Wide variety of Ethernet interfaces available
- Integrated Energy Harvesting Technology
- Precise optical and robust magnetic sensing



EtherNet/IP[™] CC-Link IE[®] Field Basic

PROFINET[®]

EtherCAT[®]

Modbus

ETHERNET POWERLINK

EXO series encoders are equipped with high accuracy optical sensing technology while **EXM series** encoders mount a robust magnetic sensing circuit.

They are designed in a complete selection of mechanical versions: solid shaft versions with 6, 8, 9.52, 10, and 12 mm (0.24", 0.31", 3/8", 0.39", 0.47") diameter and servo or clamp flange mounting; and blind hollow shaft versions with 14 and 15 mm (0.55", 0.59") diameter.

The industrial 58 mm (2.283") flange enclosure enables IP65 protection. The range of the working temperature is comprised between -25°C and +85°C (-13°F to +185°F) to cover most industrial applications.

Compared to previous series, the new encoders are lighter and more compact also thanks to the integration of the **Energy Harvesting Technology circuit**.

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

EX058 & EXM58 series encoders can be equipped with the most popular **Ethernet interfaces** available on the industrial market: Profinet, EtherNet/IP, EtherCAT, POWERLINK, Modbus TCP, and also 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

Singleturn versions provide resolutions up to 18 bits while multiturn versions provide resolutions 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.