

Absolute Encoders with Ethernet & Fieldbus Interfaces

Lika Electronic offers a comprehensive range of absolute rotary encoders with Ethernet interfaces (Profinet, EtherNet/IP, EtherCAT, POWERLINK, Modbus TCP) as well as with fieldbus serial interfaces (Profibus, CANopen, Modbus RTU, DeviceNet).

Lika's portfolio will be enriched also by new models equipped with Ethernet technology based CC-Link IE interface soon.

Lika's Ethernet and fieldbus encoders are designed in a wide variety of mechanical and electrical options.

They can provide **high resolution optical sensing technology and robust magnetic sensing technology**, singleturn and multiturn configurations, axial and radial connections, standard industrial to ATEX design. Flanges can be servo or clamp mounting style and have a diameter of 58 mm (2.283") and 77 mm (3.031"). Solid shaft diameters range between 6 and 12 mm (0.24" and 0.47") while blind hollow shaft diameters can be 14 and 15 mm (0.55" and 0.59").

They can be available in seven series:

- **AS58 series:** up to 13 bit singleturn encoders with fieldbus interface;
- **AM58 series:** up to 25 bit multiturn encoders with fieldbus interface;
- **EM58 series:** low cost 27 bit multiturn encoders equipped with robust magnetic sensing technology for standard industrial applications (Ethernet encoders only);
- **HS58 series:** 18 bit singleturn optical encoders for the finest accuracy demands;
- **HM58 series:** 30 bit high-resolution multiturn encoders, with optical sensing technology, designed for high-end applications;
- **XAC77 series:** ATEX certified category 2 singleturn and multiturn encoders for Zones 1, 2, 21, and 22 and temperature class T6;

- **XAC81 series:** ATEX certified category 3 singleturn and multiturn encoders for Zones 2 and 22 and temperature class T5.

All Ethernet and fieldbus encoders fully comply with the specifications of each protocol and profile both in the hardware and in the software.

They integrate the complete set of configuration parameters (position and velocity readout, scaling, preset, code sequence, ...) and provide advanced diagnostic functions, even via integrated web server. M12 connectors can be available in both radial and axial configurations to meet various installation requirements.

In addition, Lika also offers a comprehensive range of **IF55 converters**. IF55 converters enable the integration of both rotary and linear encoders with SSI interface into any of the aforementioned Ethernet and fieldbus industrial networks.

They are designed in a robust metal enclosure with IP65 protection and can be mounted on DIN TS35 rails by means of a clip. They are perfect for retrofitting as well as for installations where space is constricted.

For example, they allow for mounting compact linear and bearingless encoders or small rotary encoders (Ø 36 mm!) in place of larger standard Ethernet/fieldbus encoders.

[Learn more](#)

