

RANGE OF DRAW-WIRE ENCODERS

Lika Electronic offers a complete range of **draw-wire encoders**.

They can be optical or magnetic, with incremental, absolute or analogue outputs (a potentiometer can also be incorporated).

Encoders driven by a draw wire can replace standard encoders in many applications. For example, they can be a good solution when **working space is limited or the application is in harsh environmental conditions** (dirt, high temperature, moisture, etc.).

The retractor unit in fact can be mounted away from the object to be measured, at a safe distance from difficult environments, easily accessible and adequately protected.

The head of the pull-up wire has a compact size, so little space is required to still be able to attach a measurement point. In addition, it can be exposed to harsher conditions.

Typical applications are *mobile equipment and construction machinery (outriggers, stabilisers, arches), telescopic cranes, excavators, forklifts, guided vehicles, agricultural and forestry machinery and equipment, scissor lifts, car lifts, loading platforms, warehouses, electro-medical equipment (scanners, operating and examination tables, hospital beds, dentist's chairs, etc.)*.

Draw-wire-encoders are available in a very large selection of mechanical versions and interfaces.

• **With programmable incremental encoder (SFEM1 & SFEM2)**

Resolution down to 0.01 mm / 10 µm (16,384 PPR), universal output circuit

HTL/TTL, fully configurable according to needs via free software tool.

• **With SSI and analogue absolute encoder (SFAS1, SFAM1, & SFAM2)**

Resolution down to 0.012 mm / 12 µm; analogue version with TEACH-IN keys and overrun safety function, current and voltage options.

• **With Ethernet and fieldbus absolute encoder (SFAM1 & SFAM2)**

Profinet, EtherNet/IP, EtherCAT, POWERLINK, MODBUS TCP, Profibus, CANopen, DeviceNet, MODBUS RTU.

This makes Ethernet technology available in the most uncomfortable conditions (the smallest rooms, harsh industrial environments).

Resolution down to 0.024 mm / 24 µm, full set of configuration and diagnostic parameters: position and speed readout, full scaling, preset, code sequence, extended diagnostics, Ethernet and bus network settings.

• **With potentiometer (SFPS)**

Resistance values from 1 to 20 kΩ, current and voltage output.

• **With ATEX incremental and absolute encoder (SAK & SBK)**

Category 2 ATEX encoder for use in zones 1, 2, 21, 22 and Category 3 ATEX encoder for use in zones 2, 22 with ultra-rugged housing, oversized frame walls and IP65 sealing.

• **Special encoder versions**

Designed for individual applications such as towing encoders for the shipbuilding industry, marine installations and offshore facilities with stainless steel housings and special surface treatments and seals for saltwater and corrosion protection.

[Check out Lika's full draw-wire offering](#)

To find answers to all your questions please contact our team.

