

Measuring lengths up to 10 000 mm

SFA is a cable-pulling encoder from Lika Electronic (Italy) with analog signal output and increased measuring lengths up to 5000 mm and 10000 mm. A CANopen version is also available.

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(Photo: Lika)

THE [DRAW-WIRE ENCODER](#) REQUIRES JUST A FEW SECONDS in order to start operating. Two buttons in the enclosure (or two external inputs, as an alternative) allow users to set the analog range by defining the initial and final limits of their application stroke. The sensor will be scaled automatically in the available analog range. Two LEDs next to the buttons help during the setting process.

Both cable and M12 connector options are available, as a CANopen interface model. The SFA encoder offers a variety of voltage and current analog signals: 0 V to 5 V, 0 V to 10 V, -5 V to +5 V, -10 V to +10 V, 4 mA to 20 mA, 0 mA to 24 mA, and 4 mA to 24 mA. The number of information is up to 226 (4096 counts/rev x 16384 rev) with a 16-bit analog resolution and $\pm 0,04^\circ$ accuracy. It adds an overrun function to warn that the axis is beyond its travel limits.

Build with rugged components, SFA is suited for use in industrial applications, for example construction machinery, outriggers, stabilizing slides, telescopic cranes, booms in utility vehicles and mobile equipment, forklifts, loading and work platforms, as well as electro-medical equipment. It is aimed at reliable operation in dynamic systems with speeds up to 2 m/s. The sensor ensures interchangeability with SF-I and SF-A series models. The cable-pulling mechanism has been re-designed and is now able to reach increased measuring lengths up to 5000 mm and 10000 mm. The draw-wire range includes the SFE programmable incremental version and the SFA absolute version with SSI interface.