RUGGED AND HIGH ACCURACY ASC85 AND C85 ENCODERS

ASC85 absolute and C85 incremental encoders from Lika Electronic are **designed for robust and very accurate operation** under rough conditions and mechanical stresses.
Mechanically they are the same.
They are equipped with a **50 mm / 1.9685" through hollow shaft** for direct mounting onto large diameter axles. They provide a space-saving clamping system with flexible fixing plate that allows to comfortably and firmly secure the encoders to the drive shaft by means of three eccentric screws. Thus their installation is safe and fast, in particular in tight mounting spaces thanks to the minimum overall footprint. They offer a rugged and clean design: the enclosure and mechanical components are made of AISI 303 stainless steel and guarantee durability and resistance to corrosion, cleaning agents, and chemical contaminants.
The protection rate is IP65 with a wide range of the operating temperature up to -40°C +100°C (-40°F +212°F).
Designed for reliable performances in demanding motion control applications, the ASC85 absolute encoder bases on optical scanning technology. It is able to yield a very high **singleturn resolution up to 25 bits (33,554,432 cpr) and a very high accuracy of ±0.005°.**
The absolute information is provided through the SSI and BiSS C-mode interfaces with additional Sine/Cosine signals (4.096 sinusoids per turn).
M12/M23 connector and cable output options are available.

Also the C85 incremental encoder is optical and the resolution can be 5,000 and 10,000 pulses per revolution.
The output circuit provides digital and sinusoidal signals: Line Driver, Universal (HTL / TTL) and 1Vpp.
Both options "cable with flying leads" and "cable with M23 connector" are available.

Typical fields of use for these encoders include **robotic systems, military and defence applications, radars and antennas, motor feedback systems, advanced industrial machinery** and a variety of resolution- and accuracy-critical applications.