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lika
Smart encoders & actuators

Accurate feedback encoder for robotic systems and military installations

ASC85 is the cutting edge encoder from Lika Electronic with large through hollow shaft and very high resolution and accuracy. It is ideally designed for precise position control of demanding applications such as robotic systems, radars and antennas, military installations and advanced industrial machinery in general.

- Stainless steel enclosure and large 50 mm / 1.9685" thru-bore shaft
- Up to 25 bit singleturn resolution and $\pm 0.005^\circ$ accuracy
- SSI and BiSS C-mode interfaces
- Ideally suited for robots, military installations and motor feedback systems

ASC85 is the 25 bit singleturn absolute encoder with large through bore in a compact size.

It is equipped with a **50 mm / 1.9685" through hollow shaft** for direct mounting onto large diameter axles. It provides a space-saving clamping system with flexible fixing plate that allows to comfortably and firmly secure the encoder to the drive shaft by means of three eccentric screws. Thus it ensures optimal and fast installation, in particular in tight mounting spaces thanks to the minimum overall footprint.

ASC85 also takes advantage of the rugged and clean design: the **enclosure and mechanical components are made of stainless steel** and guarantee durability and resistance to corrosion, cleaning agents and chemical contaminants.

The protection rate is IP65 with wide operating temperature range up to $-40^\circ\text{C} +100^\circ\text{C}$ ($-40^\circ\text{F} +212^\circ\text{F}$).

Designed to deliver reliable performances in demanding motion control applications, the ASC85 absolute encoder bases on optical scanning technology and features **very high singleturn resolution up to 25 bits** (33,554,432 cpr) and very high accuracy of $\pm 0.005^\circ$. The absolute information is provided through the proven **SSI and BiSS C-mode interfaces**. Both M12/M23 connector and cable output options are available. Thanks to its quality and performance features, typical areas of application for this encoder include **robotic systems, radars and antennas, military installations, motor feedback systems, advanced industrial machinery and a variety of resolution- and accuracy-critical applications.**

