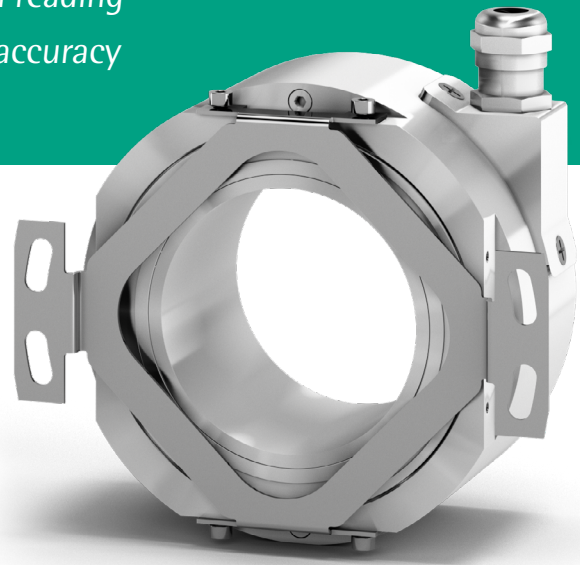


## Robust and accurate operation under rough conditions

*ASC85 absolute encoder has been revised mechanically and electrically and equipped with redundant sensing electronics to ensure the most robust and accurate operation even under rough conditions and mechanical stresses. Nothing changes for our customers: dimensions and electrical features remain exactly the same as before.*

- Revised stainless steel enclosure and large 50 mm / 1.9685" thru-bore shaft
- Redundant electronics for more precise position reading
- Up to 25 bit singleturn resolution and  $\pm 0.005^\circ$  accuracy
- SSI and BiSS C-mode interfaces



ASC85 absolute encoder has been revised mechanically and electrically and equipped with **redundant sensing electronics** to ensure the most **robust and accurate operation** even under rough conditions and mechanical stresses.

Nothing changes for our customers: dimensions and electrical features remain exactly the same as before.

ASC85 is a **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.

The plate allows to comfortably and firmly secure the encoder to the drive shaft by means of three eccentric screws. Thus installation is optimal and fast, in particular in tight mounting spaces thanks to the minimum overall footprint.

ASC85 also offers a 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 a wide operating temperature range up to  $-40^\circ\text{C} + 100^\circ\text{C}$  ( $-40^\circ\text{F} + 212^\circ\text{F}$ ).

Designed for reliable performances in demanding motion control applications, the ASC85 absolute encoder bases on optical scanning technology and is equipped with redundant electronics for better position reading. It is able to yield a very high singleturn resolution up to 25 bits (33,554,432 cpr) and a very high accuracy of  $\pm 0.005^\circ$ .

The absolute information is provided through the SSI and BiSS C-mode interfaces. Both M12/M23 connector and cable output options are available.

Typical areas of application for this encoder include **robotic systems, radars and antennas, motor feedback systems, advanced industrial machinery** and a variety of resolution- and accuracy-critical applications.