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Contact Details

The Encoder Company
H. Kuhnke Ltd
Unit 21, Abbey Enterprise Centre
Premier Way
Romsey
Hants.
SO51 9AQ
UK

T: +44 (0)1794 514445
F: +44 (0)1794 513514
Email: sales@theencodercompany.co.uk

Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.



ACURO®-XR

Resistant to harsh environments. Highly durable.

HENGSTLER



- Single-turn 12bit resolution
- Shock resistance 200 g
- Vibration resistance 20 g
- Immersible, suitable for high-pressure wash down applications
- Protection class IP69k
- Operating temperature: -40...+100°C
- Compact design with an installed depth of 32 mm
- Optional stainless-steel enclosure

ACURO[®]-XR Robust

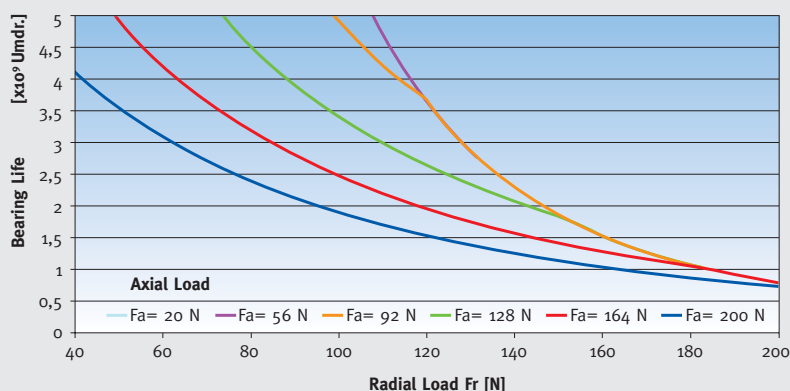
ABSOLUTELY DURABLE

Ball bearings and how they are installed are factors that significantly affect the useful life of an encoder. ACURO-XR has been designed for operation at maximum load and achieves three times the useful life at three times the radial and axial shaft loads compared to conventional designs.

Rough seas and an extremely harsh operating environment: this is what encoders are faced with when used in an automatic docking terminal for oil rig supply vessels. The basic requirements in the Food & Beverage and Packaging industries are for a high resistance to fast changes in temperature, combined with resistance to high-pressure vapor and compliance with the relevant hygienic guidelines. Our stainless-steel version is the best choice for both applications.

The special features of the new ACURO-XR series not only comprise its particularly rugged enclosure, but also generously dimensioned,

ACURO-XR Bearing - Life



The absolutely robust encoder

ABSOLUTELY RELIABLE

If encoders are used in applications under extreme environmental conditions, their true quality will become obvious very soon: high mechanical loads, distinct temperature fluctuations, contaminations and corrosive atmospheres or liquids affect conventional rotary sensors and increasingly lead to failures.

The newly designed ACURO-XR makes a difference. It easily withstands highest accelerations, extreme climatic fluctuations and even underwater operation. In this way, our rugged absolute encoder is ideally suitable for applications in wind mills, marine or utility vehicle applications, as well as for use in presses or wood and stone processing machinery: applications where high resistance to harsh environments and maximum reliability are required at the same time.

Fields of application that clearly unfold the benefits of ACURO XR:

- Construction machinery
- Utility vehicles / trucks
- Gantry cranes
- Marine equipment
- Offshore plants
- Wind power plants
- Commercial solar plants
- Food & Beverage Industry
- Filling plants
- Presses
- Your individual application

rigid ball-bearings. Capable of withstanding even high axial and radial loads on its shaft axis, this encoder type easily achieves a mechanical life of 10^9 rotations at a permanent radial load of 200 N and simultaneously, an axial load of 200 N.

ABSOLUTELY WATERPROOF

Multi-stage seals keep ACURO-XR dry even when completely immersed in water or treated with a highpressure water blaster. In addition, its internal electronics is immersion-painted and absolutely unsusceptible to humidity. The shaft inlet is

provided with multiple seals; the magnetic sensor unit is resistant to thawing, which may occur during fast changes in temperature.

ABSOLUTELY COMPACT AND ELECTRICALLY FLEXIBLE

With an installed depth of only 32 mm, this encoder is the most compact type in its class. It will save you valuable space to the benefit of your overall machinery design. ACURO-XR connects to the control system via the interfaces: CANopen, BiSS, SSI, analog 0...10 V or 4...20 mA.



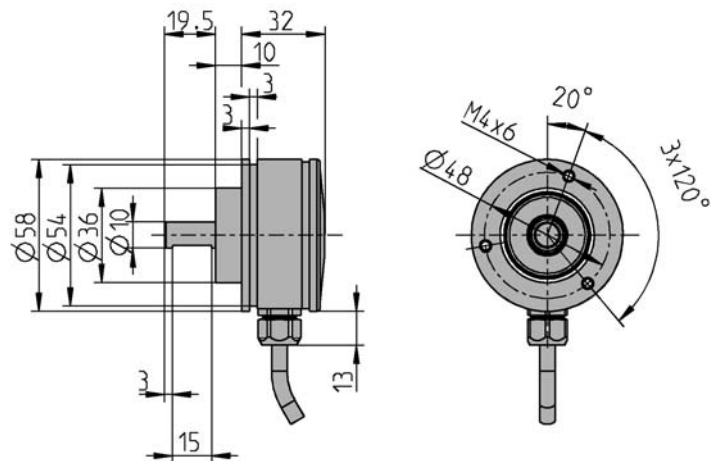
**TECHNICAL DATA
ELECTRICAL**

Supply voltage	DC 10...30 V
Max. current w/o load	CANopen 220 mA BiSS / SSI 50 mA Analog 50 mA
Interface	CANopen, BiSS, SSI, 0...10 V, 4...20 mA
Resolution	12 Bit
CANopen specific data:	
Programmable	Resolution, Offset, Direction of code
Other functions	2 pairs of limit values for end positions Output of speed and acceleration
For further variant-specific data, please see detailed data sheets AR62/63	

**TECHNICAL DATA
MECHANICAL**

Housing diameter	58 mm
Shaft diameter	10 oder 12 mm
Flange	Synchro - Clamping flange
Max. Speed	5.000 1/Min (IP67)
Vibration resistance	20 g
Schock resistance	200 g
Operating temperature	-40 ... +100 °C
Protection class	IP67 oder IP69K
Shaft Material	Stainless steel
Housing Material	Aluminum (AR62), Stainless steel (AR63)

DIMENSIONAL DRAWING



Type	Resolution	Supply voltage	Flange, Protection class, Shaft	Interface	Connection
AR62 Aluminium	0012 12 Bit	E DC 10-30 V	L.72 Synchro Clamping, IP67, 10 mm	SG SSI Gray	B Cable radial
AR63 Stainless			L.92 Synchro Clamping, IP69K, 10 mm	OL CANopen	
			L.77 Synchro Clamping, IP67, 12 mm	BI BiSS	
			L.97 Synchro Clamping, IP69K, 12 mm	AV Analog 0...10 V	
				A4 Analog 4...20 mA	

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