Encoders for the Toughest Applications

DYNAPAR

HENGSTLER

INCREMENTAL HOLLOWSHAFT

APPLICATION HARBOUR CRANE

AR63 Singleturn for tower angle measurement. Incremental encoders for portal crane motors synchronization and winch feedback.

HSD44 OPTICAL INCREMENTAL

HEAVY DUTY

Incremental Speed Feedback

- Sealed against dust, oil, grease, liquids, vapor and mud
- Designed for high shock and vibration applications
- Electrically isolated from motor shaft
- Rugged cast-aluminum housing
- Advanced ASIC technology and optics
- Easy, hex wrench installation
- -40°C to +100°C operation

Designed for:

- Heavy Rail
- Commercial Hybrid Electric and Electric Vehicles
- Heavy-Duty Cranes

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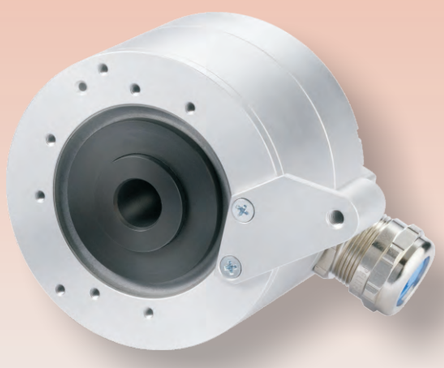
RI100 OPTICAL INCREMENTAL



HEAVY DUTY

Incremental Speed Feedback

- 16, 18 mm and 25mm hollow shaft
- Up to 5.000 pulses per revolution
- High load bearings for long life
- Intelligent alarm output for preventive maintenance
- Rugged mechanical design, unbreakable disc
- Short-circuit-proof output
- DC 5...30 V supply, pole protection
- Electrically and thermally insulated
- Protection class NEMA4X / IP 67
- Connection via M23 connector, cable or terminals
- Option: redundant output

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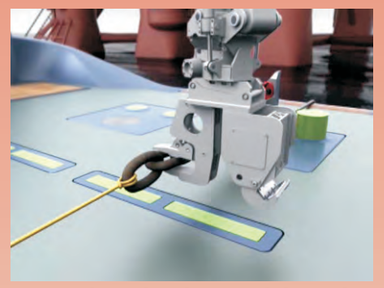
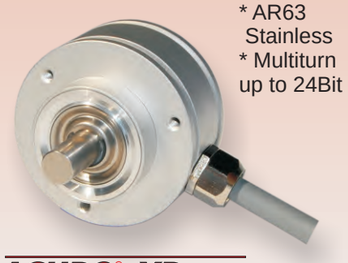


APPLICATION SHIP DOCKING ROBOT:

AR63 Singleturn helps saving human lifes by automatically catching the landing line even in stormy seas.

AR62 MAGNETIC ABSOLUTE

Options
* AR63 Stainless
* Multiturn up to 24Bit



ACURO®-XRobust

- Single-turn 12bit resolution
- Shock resistance 200 g
- Vibration resistance 20 g
- Depth of 32 mm
- Wash down duty
- Protection Class IP69K
- Temperature: -40…+100°C
- Optional stainless-steel (seawater proof)
- Interfaces: CANopen, BiSS, SSI, analog

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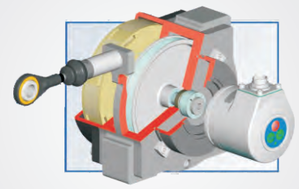
ABSOLUTE SHAFTED



FOR LINEAR MEASURE-MENT:DRAW WIRE MODULE

Linear displacement measurement
is applied in applications such as fire trucks, cranes, aerials, forklift trucks, boarding bridges, off highway vehicles etc.

`Our draw wire modules can be combined with absolute or incremental encoders in the most common interface configurations.

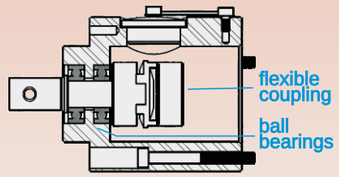
AX70 EEx ABSOLUTE ENCODER

ACURO®

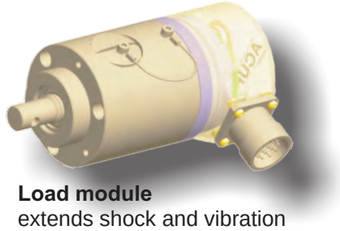
Rating: II G/D E Ex d II C T4/T6
IP65 / IP67 135°C or 85°
Singleturn ≤14bit resolution

- Multiturn 12 bit
- Temperature: -40…+100°C
- Optional stainless-steel (seawater proof)
- Interfaces: CANopen,DevieNet, BiSS, SSI, SSI programmable, Profibus, Parallel
- Protection Class IP64 or IP67
- Flange Diameter70 mm

LOAD MODULE



HEAVY DUTY



Load module
extends shock and vibration resistance of any size 58mm clamping flange encoder. Significantly extends the service life of any encoder connected.

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HEAVY DUTY ENCODERS

Unbreakable Disks
consisting of
Mylar or Stainless Steel

Resolution (1 - 5000 ppr)
-40°C to 100°C Standard, 120°C Optional
6.000 RPM

Environmentally Resistant
Available housing materials:
- Stainless steel
- Nickel
- Hard anodized Aluminum

- NEMA 4X/IP66 (Minimum)
- Face Riding Shaft Seals
- Connector O-Ring Sealing
- Double Labyrinth Sealed Housing

Intelligent Alarm Output allows preventive Maintenance for both Absolute and Incremental Encoders:
The ACURO series of Absolute encoders are actively monitoring their operational status. The internal sensor monitors permanently its operational parameters, such as remaining LED life, operating temperature, integrity of position data. Prewarnings and alarms can be generated based on exeeding of defined limits.

The RI100 has the same remote diagnostic capabilities. It can be dialed up from outside and can be checked. This helps minimizing downtimes and improving the efficiency of your service organization.

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