Measuring range : 35 Revolutions

Resolution : 12 bit (per turn)

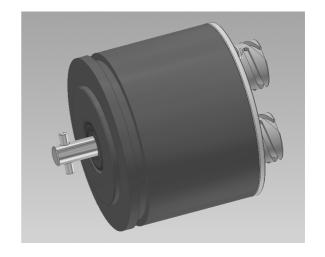
Output signal : CAN Open dual channel

Excellent Linearity : ±0.0111°

Excellent repetition accuracy : ±0.0056°

Working temperature range : -40°C to +85°C

Absolute value



Application

Due to it's excellent technical specifications, the XTB90R is suitable for reliable measurements in harsh environments. It is optimized for use at slew drives.

Technology

The angle information is captured by two independent magnetic measuring systems and made available via CANopen protocol.

Revolutions are counted even during movement without power supply, therefore no data loss can occur.

Dimension diagram

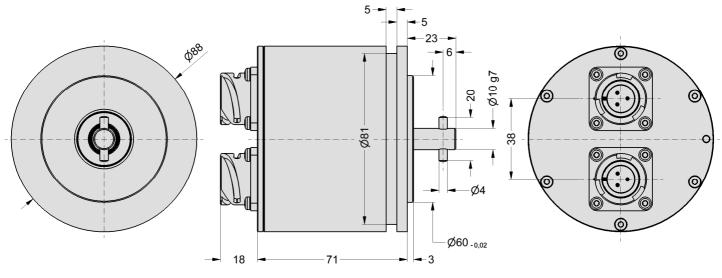
Additional scope of delivery:

4x Spring lock ring B5, DIN 127, A2

4x Hexagon socket screw M5x20, DIN 912, A2

4x Mounting clamps

Connectors ITT-Cannon, 4-pole (2x)



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Assembly

- Anodized Aluminum-Housing, protection class IP 66
- Connector ITT-Cannon / 4-pole (2x) / protection class IP 67 (with screwed mating connector)
- For mounting the housing use the 4 enclosed mounting clams and screws.

Technical Data

Electrical Data

Power supply:

24 V DC ±20 %

Power consumption:

typ. 30 mA per channel

Resolution (per turn)

12 bit (4096 steps)

Linearity:

±0.0111° ±0.0056°

Repetition accuracy:
Measuring range:

35 turns (12600°)

Bus Interface:

CAN 2.0B

CANopen specifications

CANopen profile:

CiA 406 v 3.2 encoder profile

(class 2 device)

PDOs:

2 Transmit PDOs

Baudrates:

10, 20, 50, **125**, 250, 500, 1000 kBaud

Supported features:

- Layer Setting Service (LSS)

- NMT-slave - Heartbeat

HeartbeatPDO Mapping

- Emergency Messages

- NMT startup - Scaling

Internal Bus Termination: no

Environmental Conditions

Operating Temperature: -40 °C to +85 °C

Humidity:

5 % to 95 %

Housing

Housing:

AlMgSi1 anodized

(sea-water resistant)

Shaft / Coupling:

Stainless steel (sealed with rotary shaft

sealing)

Bearing:

Roller-contact bearing

Protection class:

IP 66 (EN 60529)

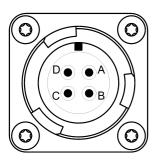
Weight:

1,2 kg

Dimensions:

Ø88 x 71 mm

Pin assignment



Channel A: Channel B:

A: Power supply A: Power supply

B: GND B: GND

C: CAN High C: CAN High

D: CAN Low D: CAN Low

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