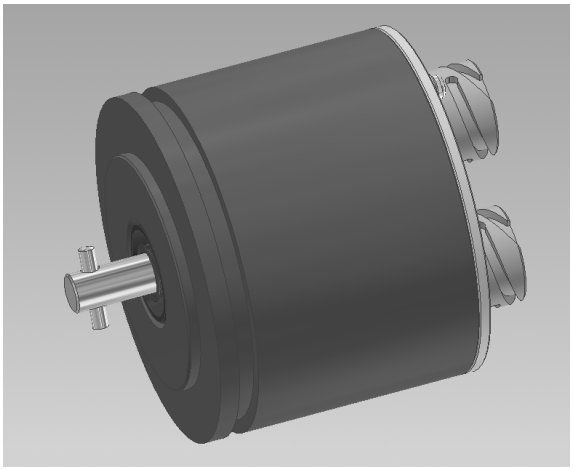
Multiturn Sensor XTB90R-12600 IBS Part-No.: IBSMT255

- **Measuring range : 35 Revolutions**
- **Resolution : 16 bit (full span)**
- **Output signal : 4 - 20 mA 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.

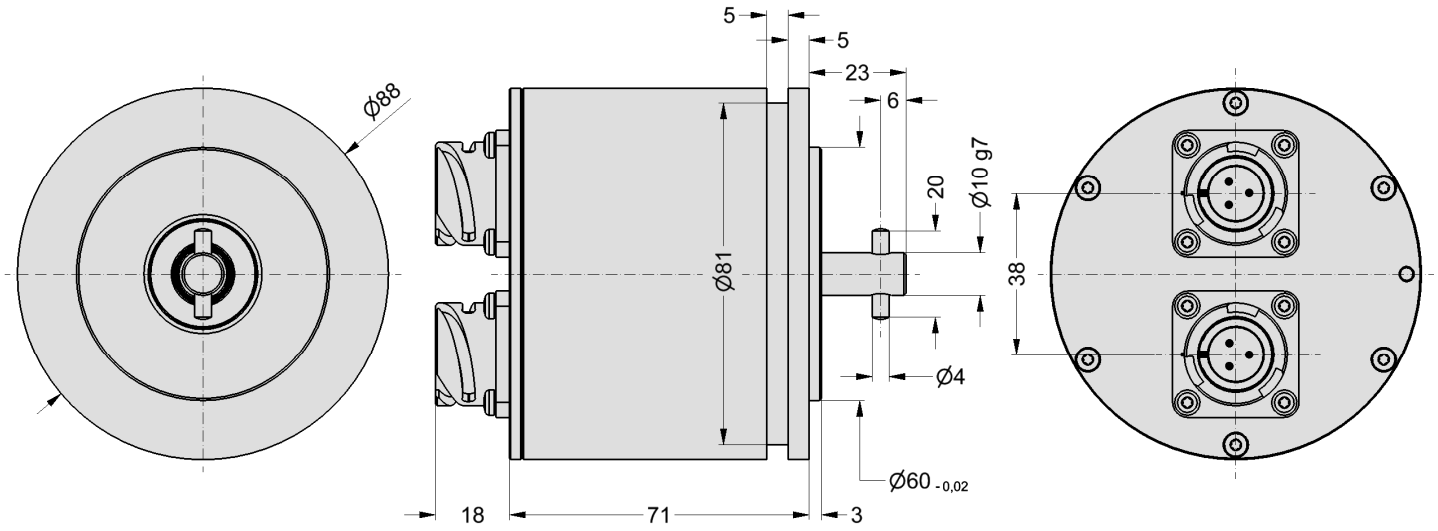
Technology

The angle information is captured by a magnetic measuring system and converted into an analog Signal 4 - 20 mA. 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, 3-pole (2x)



Assembly

- Anodized Aluminum-Housing, protection class IP 66
- Connector ITT-Cannon / 3-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 %
Measuring range :	35 turns (12600°)
Output signal :	4 - 20 mA
Resolution	16 bit
Linearity :	±0.0111 % full scale
Repetition accuracy:	±0.0056 % full scale
Temperature coefficient :	typical 15 ppm /°C

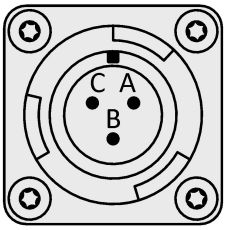
Environmental Conditions

Operating Temperature :	-40 °C to +85 °C
Humidity :	5 % to 95 %

Housing

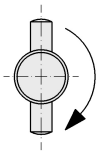
Housing :	AlMgSi1 anodized (sea-water resistant)
Shaft / Coupling :	Stainless steel (sealed with rotary shaft sealing)
Bearing :	Roller-contact bearing
Protection class :	IP 67 (EN 60529)
Weight :	1.2 kg
Dimensions :	Ø88 x 71 mm

Pin assignment



Channel A :	Channel B :
A : Power supply	A : Power supply
B : 4 - 20 mA	B : 4 - 20 mA
C : GND	C : GND

Sense of direction



Signal increases when the shaft rotates clockwise.
(looking on the top of the shaft)

Output characteristic