Absolute Rotary Encoders

Magnetic Multiturn Absolute Encoder

The absolute encoder provides a unique digital code for each angle position of the shaft.

The multiturn absolute encoder allows a higher number of applications, representing a very interesting extension of the encoders’ action field.

Besides the angular tracking of the singleturn system, the multi turn encoder stores also the counting of number of revolutions made.

Magnetic encoders use magnetic poles, which fix the angle of rotation. The received data is assigned a unique code.

Contactless magnetic technology – a new revolution in the production of rotary encoders, allowing to operate devices without exposing them to wear due to the absence of bearings.

This allows you to operate devices in an environment with harsh conditions. Magnetic encoders are perfect for heavy duty applications that require high speed, robustness, and a wide range of operating temperature at the same time providing an excellent reliability in the generation of signals.

The sensor is designed using innovative Energy Harvesting Technologies, took as a basis the system Wiegand.
Magnetic Rotary Encoder Eltra

The main series of Eltra Magnetic Multiturn Absolute encoder

- EAM 36 A
- EAM 36 F/G
- EAMW 58 B/C - 63 D
- EA 36 F/G
- EA 36 A
- EMA 22A - SSI
- EMA 50 A/B/BY
- EMA 50 F/G
- EMA 55 A/AY
- EML 50 A/B/BY
- EML 50 F/G

Under this line of Eltra encoders with Magnetic ASIC technology there are shafted encoders, encoders with blind hollow shaft and kit encoders.
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**Key features:**

- Electronic interface can be SSI, BIT Parallel or analogue.
- Power supply 5 V DC, 12 - 28 V DC or 8 - 30 V DC.
- Cable, connector or cable gland output can be radial or axial.
- External diameter: 36 - 63.5 mm
- Shaft/bore diameter: 6 - 15 mm
- Resolution: 2 - 8192 ppr (13 bit).
- Rotation speed: 3000, 8000, 10000 rpm.

- Temperature range: -20 .. +125 °C
- Enclosure protection: IP67
- Encoder mounting can be by:
  - fixing flange;
  - stator coupling;
  - anti-rotation pin;
  - synchronous flange;
  - clamping flange;
  - centering square flange.

You can choose **special types of magnetic encoders:**

**Miniturized encoder** for limitses size applications (EAM 36A-F-G, EA 36 A-F-G)

**Encoders with separated chambers** which give sturdy construction (EMA 22 A, EMA 50 A, EMA 50 B-BY, EMA 50 F-G, EML 50 A-B-BY, EML 50 F-G, EAM 36A-F-G, EA 36 A-F-G)

**Kit encoders** (EMA 22A, EMA 55A - AY)
## Magnetic Multiturn Absolute Encoder

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<tr>
<th>Series</th>
<th>Shaft type</th>
<th>electronic interface</th>
<th>key features</th>
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**www.eltra-trade.com**

tel: +421 552 601 099
e-mail: info@eltra-trade.com
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