

Compact and robust magnetic absolute encoders EAM280 / EAM500.

Easy integration and durable operation

The EAM280 and EAM500 magnetic absolute encoders are high performance encoders with extremely compact dimensions for a variety of applications. They support freedom for machine design, simple installation and long service life.

Space-saving, flexible and robust design

- Ultra-compact housings with 10 mm installation depth or $\varnothing 28.6$ mm for use in tight spaces
- Redundant output versions
- Teach input for easy adjustment of measuring range / zero position
- Extended temperature range $-40 \dots +85$ °C
- Wear-free magnetic sensing insensitive to dust and dirt
- Rugged industry-proof aluminum / plastic housing
- Protection class up to IP 67
- Shaft version with integrated push on coupling
- Bearingless kit version with mounting tolerance up to 3 mm

Maximum comfort in the application

- Easy and flexible mechanical integration
- Excellent price-performance ratio
- Time saving installation
- Long service life



Main applications

- All applications with limited installation space
- Packaging machines
- Forklift truck
- Slip rings
- Aerial work platforms

Product overview EAM280 / EAM500



	EAM280 Solid shaft encoder	EAM500 Bearingless encoder kit
Sensing method	Magnetic	
Size	ø28.6 mm (flange ø48 mm)	ø50 mm (installation depth 10 mm)
Function	Singleturn	
Steps per turn	Up to 14 bit	
Measuring range	0 ... 30° 0 ... 60° 0 ... 180° 0 ... 270° 0 ... 360°	
Voltage supply / Interface	5 VDC / Analog 0.5 ... +4.5 V 8 ... 30 VDC / Analog 0.5 ... +4.5 V 12 ... 30 VDC / Analog 0 ... 10 V 12 ... 30 VDC / Analog 4 ... 20 mA 10 ... 30 VDC / CANopen® 5 VDC / Analog 0.5 ... +4.5 V redundant 8 ... 30 VDC / Analog 0.5 ... +4.5 V redundant 10 ... 30 VDC / CANopen® redundant	
Shaft type	ø6 mm solid shaft with flat, push-on coupling	ø6 mm (magnet rotor bore)
Admitted shaft load	≤10 N axial, ≤10 N radial	–
Absolute accuracy (typ. 25 °C)	±1.8°	
Operating temperature	–40 ... +85 °C	
Materials	Housing: Plastic	Housing: Aluminium
Protection DIN EN 60529	IP 65, IP 67	IP 67
Connection	Cable 0.3 m (5 x 0.25 mm ²)	Cable 0.3 m (5 x 0.14 mm ²)
Comfort functions	Set zero position teach-input	Set zero position teach-input Magnet loss warning signal

Learn more about our EAM280 and EAM500 encoder series at:
www.baumer.com/motion

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