

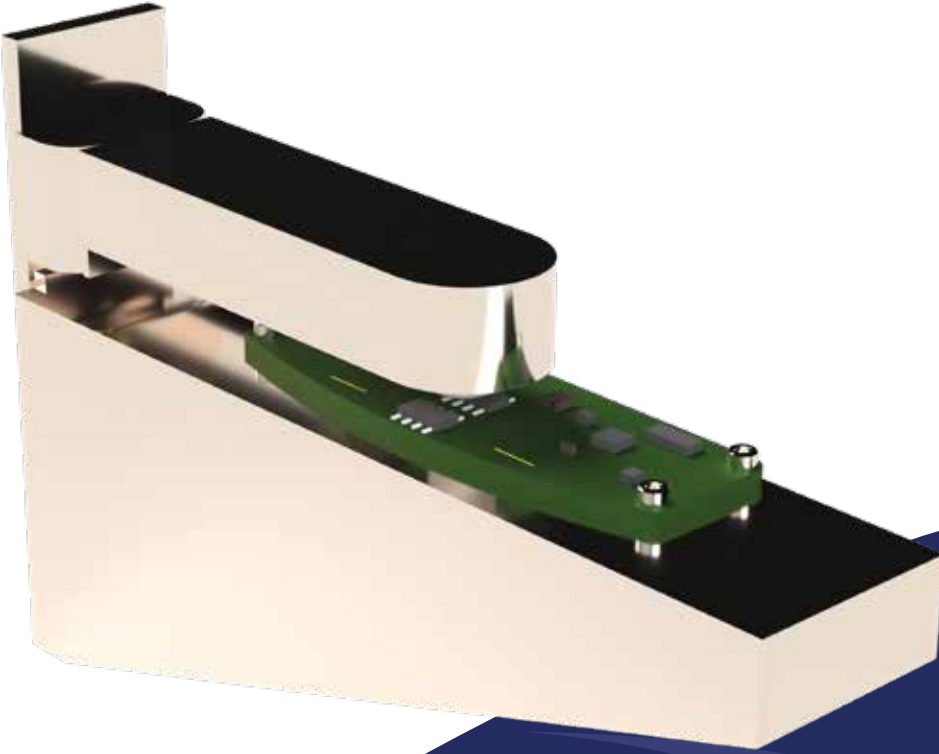


MEN-100

Magnetic Encoder

High Resolution
Compact Design
Precise Angle Measurement

Off Axis Positioned Card Type Magnetic encoder specially designed for structures requiring narrow angle measurement.



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It is a magnetic encoder that provides volumetric advantage with its off-center positioning feature in structures requiring narrow angle measurement.

Sine and cosine voltage outputs from the Hall sensor pair vary with magnet position. The near-linear motion of the magnet placed at a known distance from the rotation axis is processed and converted into an angular output.

It provides uninterrupted operation data with its moisture-sensitive magnetic structure in structures that are not fully sealed.

The superior quality, diametrically polarized, cylindrical magnet is chosen to guarantee optimal accuracy and performance.

Application Areas

- Electro-Optical Surveillance, Tracking and Targeting Systems
- Radar Systems
- Land Weapons Systems

Technical Specifications

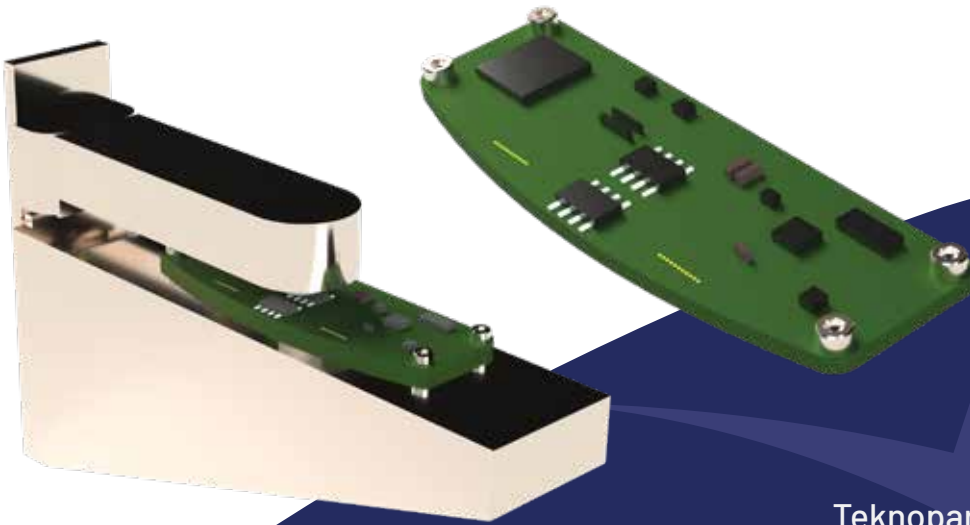
Nominal Input Voltage	5 V
Input Current	250 mA
Resolution	16 bits
Repeatability	2 LSB
Measurement Range	$\pm 5^\circ$
Communication protocol	BISS
Data Rate	≥ 20 kHz

Environmental Conditions

Operating Temperature and Altitude: -40°C / $+55^\circ\text{C}$,
50.000 ft Storage Temperature: -55°C / $+70^\circ\text{C}$

Qualifications

- MIL-STD-810H
- RTCA/DO-160E
- MIL-STD-461G



Specifications are subject to change without any notice. All tolerances are within $\pm 10\%$.