

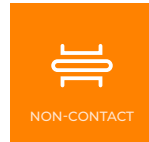
DiTrak

off-axis absolute and incremental magnetic encoder

DiTrak encoder is a non-contact, off-axis absolute magnetic encoder suitable for radial and axial applications. Small readhead design is especially suitable for integration into space constraint applications.



HIGH SPEED



NON-CONTACT



18
18 BITS
RESOLUTION



Why choose DiTrak?

FEATURES:

- ✓ True absolute
- ✓ Compact design
- ✓ Accuracy to $\pm 0.15^\circ$
- ✓ Multiturn counter option
- ✓ Resolution to 18 bits

BENEFITS:

- ✓ Selection of different ring sizes
- ✓ Alternative mounting configurations
- ✓ Small design footprint
- ✓ SSI, BiSS, ABZ or UVW
- ✓ Built-in self-monitoring



ROBOTIC ARM
JOINTS



PAN/TILT
POSITIONING



ELECTRIC
ACTUATOR



MEDICAL



MOTOR CONTROL

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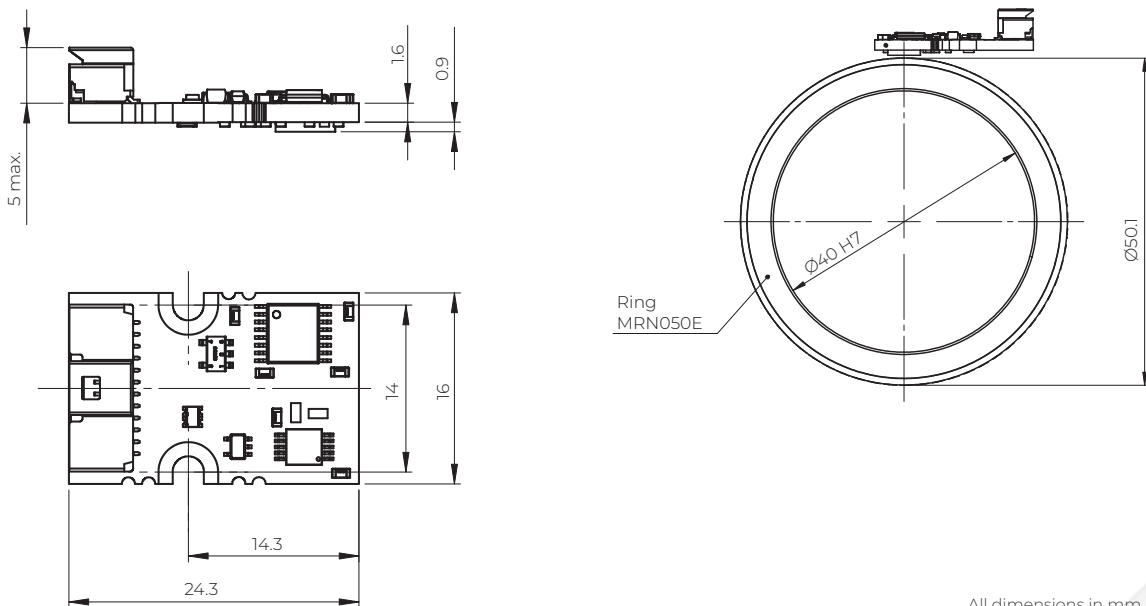
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DiTrak technical specifications

SYSTEM DATA		
Resolution - absolute	Up to 18 bit and 16 bit multiturn counter option	
Resolution - incremental	4 to 262,144 counts/revolution	
Maximum speed	6,000 RPM to 24,000 RPM (depending on size and resolution)	
Accuracy	±0.1° (before installation - errors caused by mounting inaccuracy of the readhead, ring and drive shaft are not included)	
Final system accuracy	Typ. ±0.15° - within defined installation tolerances	
ELECTRICAL DATA		
Supply voltage	5 V ±5 %	
Current consumption	60 mA (without output load)	
MECHANICAL DATA		
Available ring sizes (outer diameter)	Radial: 50.1 mm (available soon: 11.4 mm, 13.5 mm, 24.5 mm, 28.8 mm, 59.3 mm)	
ENVIRONMENTAL DATA		
Temperature	Operating	-40 °C to +85 °C
	Storage	-40 °C to +100 °C

DiTrak dimensions




All dimensions in mm.

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