Triaxis® High-Speed Encoder IC

MLX90382



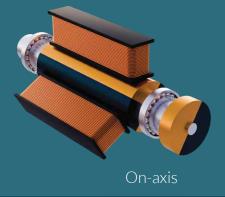
The MLX90382 is a compact, absolute magnetic encoder IC. It features stray field immunity, supports both on-axis and off-axis sensing, 14-bit resolution, differential outputs and a speed range of up to 200k e-RPM



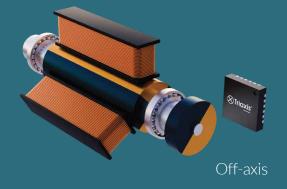
Key features

- - Absolute Angle Position
 - Speed Tracking up to 200k e-rpm
- On-Chip Signal Processing with zero latency
- Operating range
 - Temperature from -40 °C to 150 °C
 - Supply for 5 V and 3.3 V applications
- **⊘** Triaxis® Hall Technology
- Programmable Linear Transfer Characteristic with up to 16 points

- SIL-2 compliant
- 360° stray field immunity up to 4 kA/m
- Multiple output modes
 - SPI/SSI/PWM
 - Single-ended and differential ABI/UVW
 - Synchronized readout of multiple devices via SF
- Packages RoHS-complian
 - Single-Die OFN-24







Applications

- Robotic joints
- Weaving Machine Motors
- **⊘** E-Mobility motors
- Industrial Automation





www.melexis.com/ MLX90382

