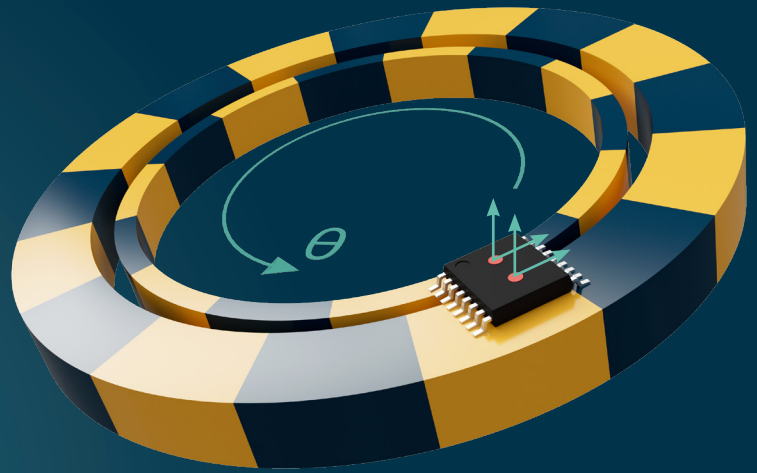


Popularize precise motion for robots

ARCMINAXIS®

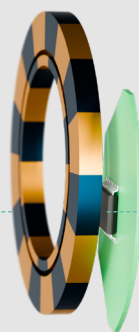
Arcminaxis® is a technology addressing the growing demand for affordable, high-precision position sensing in robotic joints. Combining multi-axis sensing with Vernier technology, it reduces the complexity and effort involved in assembling robotic joints.



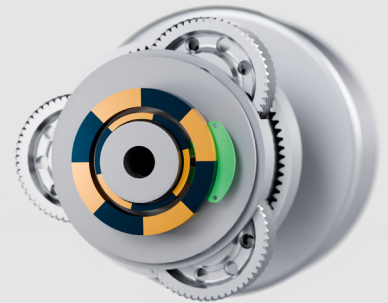
The Arcminaxis Vernier sensing concept combines two sensing spots with orthogonal components



Patented Vernier magnet



Sensor IC
Operating software



Key features

- ✓ Resolution up to 18 bits
- ✓ Pitch-independent, one IC fits various magnets
- ✓ High speed with SPI and SSI interfaces
- ✓ Reduces the complexity involved in assembling robotic joints
 - Large air gap sensor to magnet (1.5 mm nominal)
 - Generous magnet-sensor placement tolerance of ± 0.5 mm

- ✓ TSSOP-16 Sensor package
- ✓ Supply 3.3 V
- ✓ Temperature from -20 °C to 85 °C



MLX90384

Application examples

- ✓ Absolute Rotary Position Sensor
- ✓ High Accuracy Encoder
 - Robotics
 - E-Mobility
 - Industrial Motors

