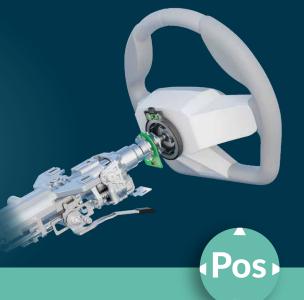
# INDUCTIVE POSITION SENSORS

## MLX90513-MLX90514

Experience inductive position sensing technology, now broadly available thanks to Melexis. With native immunity to stray magnetic fields, the MLX90513 & MLX90514 are designed for exceptional accuracy and functional safety, addressing the complex challenges of modern automotive systems, from steering, braking and e-chassis. Simplify your design, reduce your Bill of Materials (BoM), and ensure responsiveness with our robust, high-performance solutions.

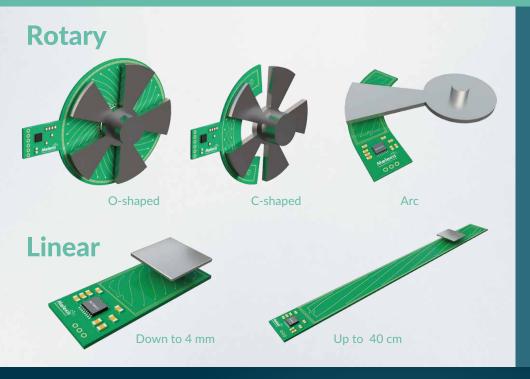


## **Key features**

- High accuracy: maximum error ±0.1% FS
- 🚫 Supports rotary (360°) and linear (up to 40 cm) motior
- Manume to magnetic stray fields (ISO 11452-8)
- Interface options—Analog, SENT, SPC, or PWM for a standalone module, SPI for embedded modules
- Zero latency (through programming
- Flexible signal conditioning with 16 or 32-point programmable linear transfer characteristic

- ASIL C(D) Safety Element out of Context (ISO 26262)
- 🚫 Overvoltage and reverse-polarity protection ±24 V maximun
- Ambient operating temperature from -40°C to 160°C
- ✓ TSSOP-16 Package RoHS Compliant





# **Highlights**

#### MLX90513



Option with analog output

### MLX90514

- Oual channel input for differential or vernier angles computed on-chip
- External PWM readout
- Option with SPI output



## **Applications**

Pedal position
Steering angle sensing
Steering rack position
Steering torque feedback
Steering torque & angle TAS
Steering rear axle linear stroke
Ride height position
Valves position





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