

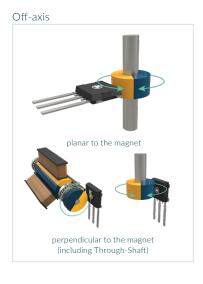
STANDALONE 3D POSITION SENSOR FOR DEMANDING AUTOMOTIVE APPLICATIONS

MLX90422



The MLX90422 is designed for use in cost-sensitive automotive applications including powertrain actuators, pedal positioning, fuel level gauges and transmission systems, though also suitable for industrial implementations. It consists of a Triaxis® Hall magnetic front end, an analog to digital signal conditioner, a DSP for advanced signal processing and a programmable output stage driver (SENT). The MLX90422 has superior capabilities in terms of functional safety, absolute maximum ratings (AMR), electromagnetic compliance (EMC) characteristics and supports operating temperature up to 160 °C.











MLX90422 KEY FEATURES

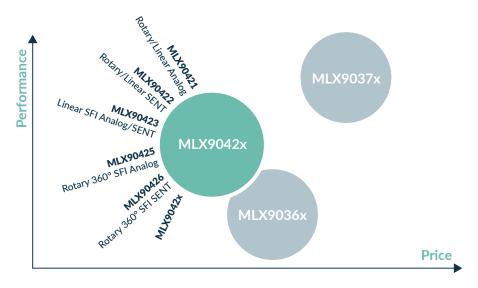
- SENT output (SAE J2716 APR2016)
- Programmable measurement range
- Programmable linear transfer characteristic with up to 17 points
- Operating temperature from -40°C to 160°C
- Triaxis® Hall technology
- On chip signal processing for robust absolute position sensing

- Packages, RoHS compliant
 - SOIC-8 (DC) Single Die
 - TSSOP-16 (GO) Dual Die (redundancy)
 - DMP-4 (VS), Single Die PCB-less solution
 - SMP-3 (VE), Single Die PCB-less solution
 - SMP-4 (VD), Dual Die PCB-less solution

O Certification

- AEC-Q100 Grade-0
- ISO 26262 ASIL B Safety Element out of Context (SEooC)

MLX9042x FAMILY



MLX9042x APPLICATION EXAMPLES

Absolute Rotary Position Sensor

Absolute Linear Position Sensor

