

# MLX90340 Evaluation Board

## Product Overview

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## Description

Melexis MLX90340 Evaluation Board is designed to evaluate the performance of the MLX90340 magnetic position sensor. This MLX90340 magnetic position sensor comes with a 24V supply voltage rating and a 15mA to 18mA supply current range. The position sensor features a programmable measurement range and 12-bit resolution with 10-bit thermal accuracy.



## MLX90340 Magnetic Position Sensor

MLX90340 Magnetic Position Sensor is a monolithic sensor IC sensitive to the flux density applied orthogonally and parallel to the IC surface. This MLX90340 position sensor is based on the Triaxis Hall technology targeted for various applications in consumer and industrial markets. This MLX90340 reports a programmable ratiometric analog output signal compatible with a linear hall sensor. The MLX90340 sensor IC targets and is used in a myriad of non-contacting linear and rotary position sensor applications which are frequently seen in consumer and industrial systems. The IC is available in single and dual redundant implementations to cost-effectively address the full range of applications. Typical applications of MLX90340 sensor IC include automobiles, heavy-duty industrial, and consumers.

## Features of MLX90340 Magnetic Position Sensor

- Triaxis hall technology
- 12-bit resolution
- 10-bit thermal accuracy
- 48-bit ID number option
- On-chip signal processing for robust absolute position sensing
- ASIL-A capable, Safety Element out of Context (SEooC)
- Analog (ratiometric) and PWM selectable output mode
- Programmable measurement range
- Programmable linear transfer characteristic (multi-points 4 or piece-wise-linear 17)
- Single die-SOIC-8 package RoHS compliant

## Mouser Part Number

[View Part](#)

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