

### MLX90378

TRIAXIS® GEN III

# 3D AND JOYSTICK POSITION SENSOR



## **3D AND JOYSTICK MAGNETIC FIELD SENSOR**

The MLX90378 is the newest addition to the Melexis position sensing portfolio bringing full 3D sensing to the Triaxis<sup>®</sup> family. Featuring a SENT or dual PWM output signal, the MLX90378 supports a wide variety of automotive position sensing applications from shifters to transmission sensors to human-machine interfaces.

### **KEY FEATURES**

- 3D / joystick position sensing
- Ø Two angle outputs: forward/backward & left/right
- Ø Magnet push/pull detection
- ✓ XYZ output optional via SENT output
- Extra input pin for reading additional signals (e.g. mechanical switch)
- SIL-C (SEooC) component
- ✓ Ta = -40 ... 160 °C

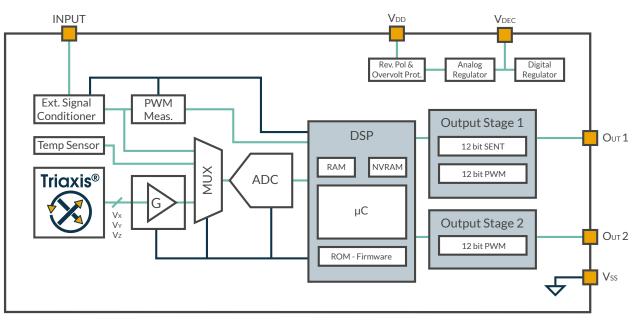
- In-application programmable
- Itighly flexible and robust position sensor
- SENT or dual PWM output
- Second Se
- SOIC-8, single-die package
- SSOP-16, redundant dual-die package



#### **APPLICATION VISUALS**



**BLOCK DIAGRAM** 



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