IMC-HALL® HIGH-SPEED CURRENT SENSOR

MLX91218

Unlock unparalleled precision and efficiency in your high-speed current sensing applications. The MLX91218, powered by IMC-Hall® technology, offers a compact, robust, and highly accurate solution for measuring currents from 1 A to 2000 A. Experience simplified module designs, enhanced signal-to-noise ratio, and dual OverCurrent Detection (OCD) functionality, all in a space-saving SOIC8 package. Discover how the MLX91218's flexible U-shield design and programmable features can optimize your power electronics systems and drive significant cost savings.



Key features

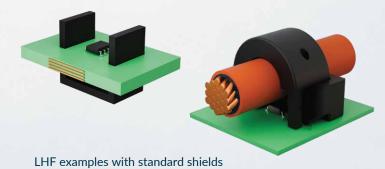
- O Dual overcurrent detection
- Flexible Supply Voltage: 5V mode and 3.3V mode
- Selectable analog output: Ratiometric or fixed (Vref)
- High speed, Low noise
- Measurement range

- MC-Hall® Technology
- **⊘** End-of-line programmable sensor
- High linearity down to ±0.5% full scale
- Very low thermal drift for wide temperature range
- Package RoHS compliant
- AEC-Q100 Grade 0 Automotive Qualified



XHF and VHF examples with standard shields

- AxV versions (Very high field): from 200 to 1200 A
- AxX versions (eXtra high field): from 200 to 2000 A



AxL versions (Low field): from 10 to 200 A

Applications

- Redundant monitoring of BMS
- High Voltage Traction inverters (HV)
- machines (48V)
- O DCDC Converter
- Smart Battery Junction Boxes
- Smart Fuse Overcurrent Detection







www.melexis.com/ MLX91218

