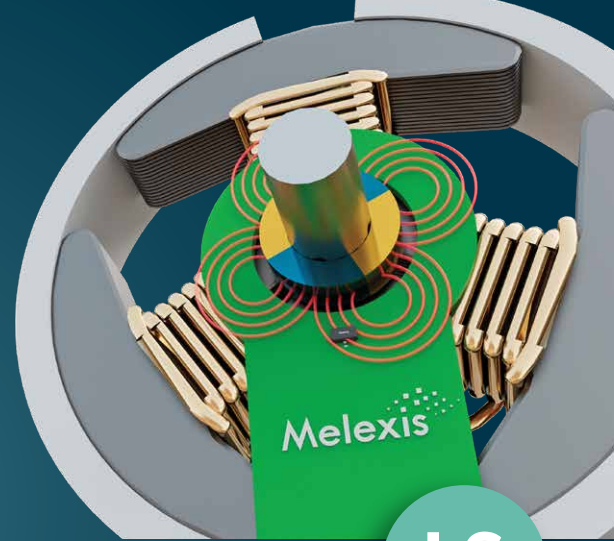


# 3-WIRE HALL-EFFECT LATCH

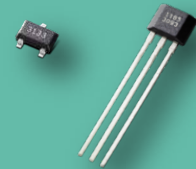
## MLX92211

The MLX92211 is a 3-wire Hall-effect latch engineered for precision and reliability in brushless DC (BLDC) motors application. Leveraging Triaxis® technology, it enables lateral magnetic position sensing, allowing for a smaller footprint. With its robust design, including high ESD protection, a high output current limit, and an ASIL A variant for safety-critical applications, the MLX92211 is ideal for automotive compact motors in seat positioning, sunroofs, and thermal expansion valves.



## Key features

- ✓ Multiple pre-programmed versions available
- ✓ High accuracy
- ✓ Lateral sensing - Triaxis® technology
  - Compact module designs
  - Flexibility in the magnetic design
- ✓ AEC-Q100 qualified (Grade-0)
- ✓ ISO 26262 ASIL A for the MLX92211 Axx versions
- ✓ Wide operating voltage range from 2.7 V to 24 V
- ✓ Operating temperature from -40°C to 150°C
- ✓ Built-in negative temperature coefficient
- ✓ Protections
  - Reverse supply voltage protection
  - Output current limit with auto-shutoff
  - Under-voltage lockout protection
  - Thermal protection
  - High ESD rating / Excellent EMC performance
- ✓ RoHS compliant packages
  - Thin SOT23 3L
  - TO92-3L



## Applications

- Automotive, Consumer and Industrial
- 3-phase BLDC motor commutation
- DC motors and index counting
- Window lifters & sunroof motors
- Cooling & expansion valves
- Power liftgate & power door motors
- Door handle & charge port motors
- Seat & steering motors
- Electronic park brake motors



[www.melexis.com/MLX92211](http://www.melexis.com/MLX92211)

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