

MLX92242 / MLX92241 / MLX92221

2-WIRE SENSOR

WITH INTEGRATED
CAPACITOR



The hammerhead shark is able to detect electronic signals of no more than half a billionth of a volt. The process uses specialized electroreceptors to detect and locate the source of an external electric field in its environment. What better animal to reflect our sensing capacities?

ASIL A - END-OF-LINE PROGRAMMABLE 2-WIRE HALL LATCH/SWITCH

Melexis presents a new package option, featuring an integrated decoupling capacitor, for its existing 2-wire Hall effect switch and latch sensor ICs.

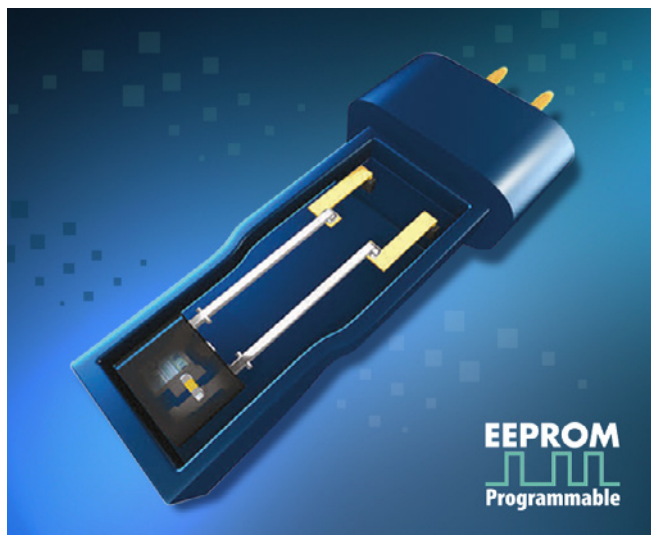


MLX92242

This new package option enables PCB-less modules and assemblies while retaining the EMI/ESD performance necessary in harsh duty environments. The pin ordering for this option is optimized to allow wider clearance and direct connection via welding or soldering to a connector or an insert molded lead frame connector. This avoids any secondary operations typically consisting of bending of the leads.

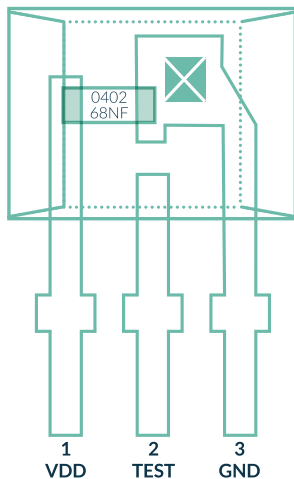
FEATURES & BENEFITS

- ✓ Smaller module design
- ✓ Lower BOM count
- ✓ Higher reliability from fewer components and connections
- ✓ Elimination of secondary lead form and trim operations
- ✓ Wider clearance
- ✓ Optimized EMI/ESD design
- ✓ PCB-less applications
- ✓ Integrated decoupling capacitor
- ✓ AEC-Q100 qualified
- ✓ Industry standard SIP TO-92 "UA" package
- ✓ ISO26262-compliant

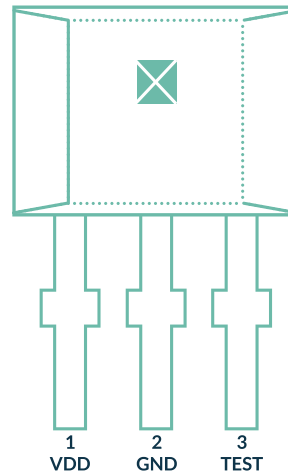


MAIN APPLICATIONS

- ✔ Seat position detection
- ✔ Seatbelt buckle switch
- ✔ Open close detection



NEW SIP UA PACKAGE
OPTION WITH WIDER
PIN-OUT FOR NO PCB
ASSEMBLIES



STANDARD
MLX92242/41/21 SIP UA
PACKAGE AND PIN-OUT

MLX92242 INTEGRATED DECOUPLING CAPACITOR BLOCK DIAGRAM

