

# 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**

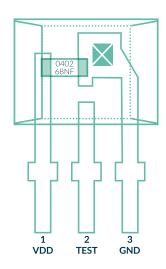
- Smaller module design
- O Lower BOM count
- Higher reliability from fewer components wand connections
- Elimination of secondary lead form and trim operations
- Wider clearance
- Optimized EMI/ESD design
- PCB-less applications
- Integrated decoupling capacitor
- ✓ Industry standard SIP TO-92 "UA" package
- SO26262-compliant



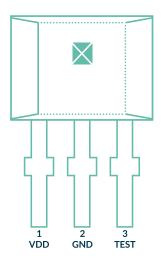


## **MAIN APPLICATIONS**

- 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

