

MLX92362 / MLX92361

HALL-BASED FLOATING SWITCH

ISOLATED OUTPUT HALL LATCH/SWITCH MLX92362 / MLX92361

Providing yield and reliability in fluid level measurements, the MLX92362 and MLX92361 are unique plugand-play magnetic latch/switch. With their isolated floating output, they only requires a power supply to directly drive the load. Hassle-free assembly is guaranteed thanks to CMOS testability, solder reflow and contactless operation. Additionally, a series of ICs can be connected in a single module, and synchronized via the same 3-wire interface thanks to the built-in daisy-chain function. The MLX92362 is programmable while the MLX92361 comes pre-programmed.

KEY FEATURES

- Normal or lateral magnetic sensitivity options
 X (Y) or Z
- Switch output fully isolated from the supply voltage (can be below GND or above VDD)
- Built-in daisy-chain functionality to synchronize multiple ICs
- Solution Typical R_{on} of 3Ω
- Programmable magnetic thresholds and threshold temperature coefficient

APPLICATIONS

- Floating switch 3-wire
- 🛇 Reed switch replacement
- 🞯 Push button
- Oirect load driving

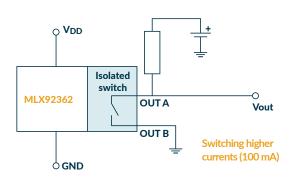
- Output current 100 mA average (200 mA max.)
- Operating voltage range from 4.5V to 28V
- ✓ Operating temperature from -40°C to 150°C
- Package RoHS compliant TSOT-6L
- 🥝 Low average supply current 180μA typical
- 🛇 Under-Voltage Reset protection
- O Thermal protection



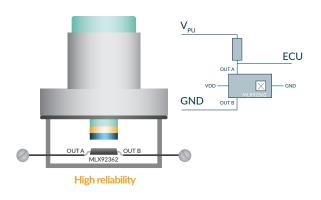
FOR MORE INFORMATION: WWW.MELEXIS.COM/MLX92362 WWW.MELEXIS.COM/MLX92361



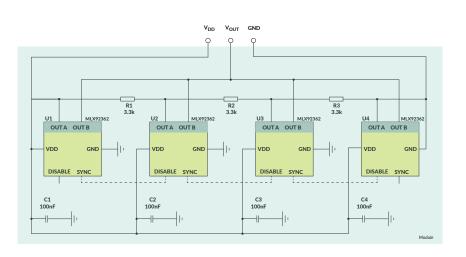
DIRECT LOAD DRIVING



PUSH BUTTON -HIGH SIDE / LOW SIDE SWITCH



FLUID LEVEL SENSING - 3-WIRE





Multiple sensors connected in a single module and synchronized via the builtin daisy-chain functionality

CLASSIC REED SWICH VERSUS MELEXIS HALL-EFFECT SWITCH

Classic reed switch	vs. Melexis Hall-effect switch
10 - 30 mm Bulky design • Complex PCB assembly • Fragile •	 2.8 - 3 mm 5 times smaller form factor Reflow soldering possible No bouncing issue No "glass" usage Robust package Easy to assemble
Same magnet compatibilityCompatible with 3-wire interface	

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