

3D TRIAXIS DUAL LATCH & SWITCH

MLX92352 / MLX92351

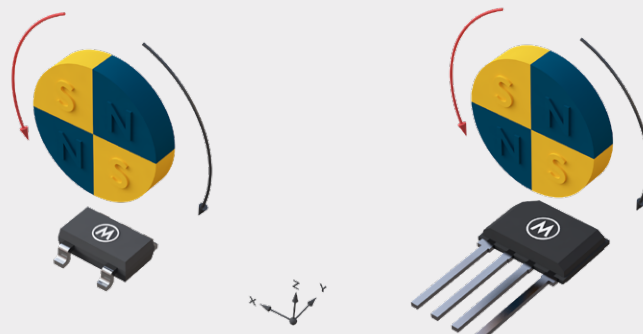
The MLX92352 (programmable) and MLX92351 (pre-programmed) are universal 3-axis latch & switch targeting relative position and speed sensing. They provide magnetic flexibility and pitch independent dual outputs that can be set as speed, pulse or direction. With their unmatched EMC and ESD performance, these stand-alone PCB-less device saves space and total module cost for automotive and industrial applications.



Versatile 3-60 V PCB-less solution with dual quadrature outputs

Key features

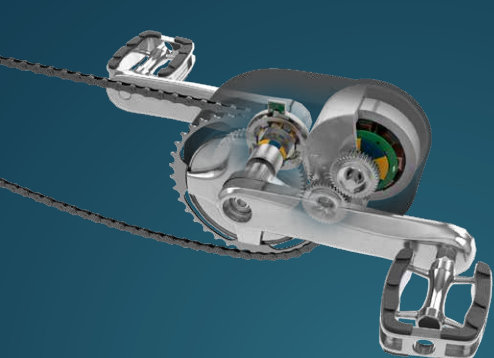
- ✓ Dual Hall outputs
 - Two X, Y or Z magnetically sensitive open drain outputs
 - Quadrature outputs (90° phase shift) for pitch-independent design
 - Programmable independent magnetic thresholds and temperature coefficient
- ✓ Programmable magnetic latch, unipolar or omni-polar switch functions
- ✓ Speed, direction or pulse output functions
- ✓ Wide magnetic range from 0.5mT to 40mT
- ✓ Wide operating voltage range 2.7V to 60V
- ✓ Low current consumption of 1.9mA
- ✓ High ESD capability and EMC robustness
- ✓ Packages, RoHS compliant
 - VA-4L (PCB-less)
 - TSOT23-5L (SMD)
- ✓ AEC-Q100 and ASIL A capable device
- ✓ Junction temperature up to 175°C



ZX configuration

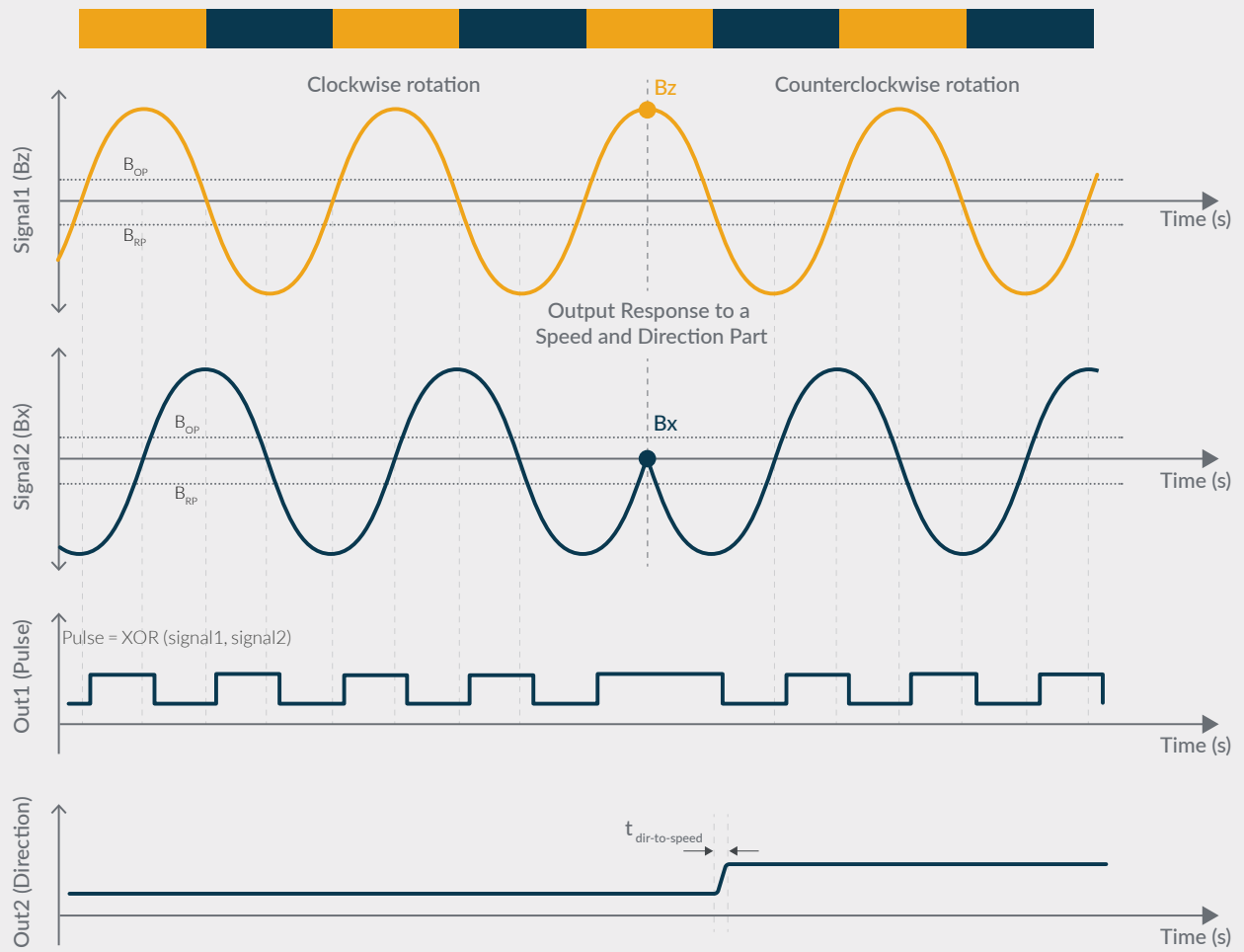
Applications (5/12/48 V rail)

- Linear speed & direction control: power liftgate, doors, windows
- Incremental rotary encoding: cadence sensor for e-bikes,
- DC motor indexing: seat, fan & pump motors
- Dual linear position detection: piston, lever, steering column
- Angular position detection: knobs, jog wheels and valves

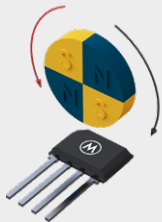


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ZX configuration



XY configuration



ZY configuration

