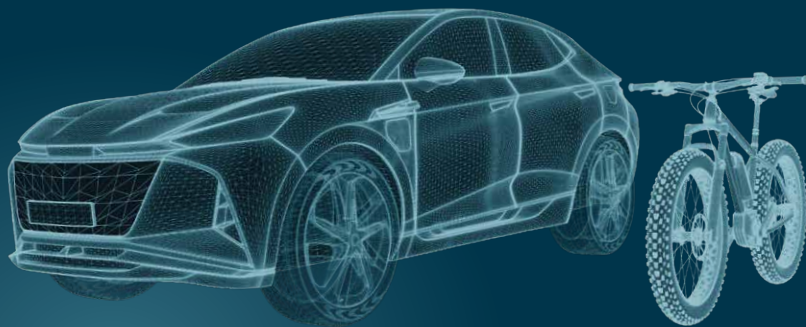


# Hall-effect dual latch ICs



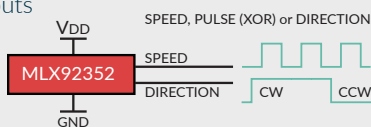
A Hall-effect dual latch is a compact sensor IC ideal for actuator applications requiring precise speed, relative position or direction detection. Its two accurate, independent outputs remain reliable with varying magnetic field strengths. It makes it ideal for automotive, industrial and consumer applications such as DC, BLDC motor control, ABS, and flow meters.



## Highlights

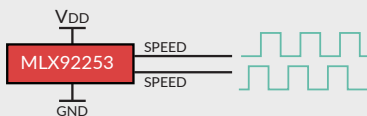
### MLX92352

- Speed, pulse or direction outputs
- 2.7V–60V
- TSOT-5 or VA Package
- Pitch independent
- Programmable sensing ZX, XY, ZY



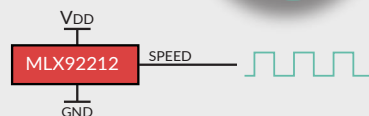
### MLX92253

- Speed & speed outputs
- 2.7V–5.5V
- TSOT-5 or VA Package
- Pitch independent



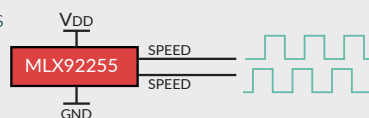
### MLX92212

- Speed Output
- 2.5V - 5.5V
- TSOT-3 Package



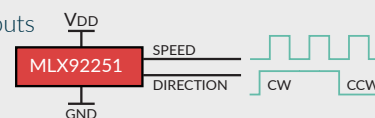
### MLX92255

- Speed & speed outputs
- 2.5V - 5.5V
- TSOT-5 Package



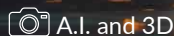
### MLX92251

- Speed & direction outputs
- 2.7V–24V
- TSOT-5 Package



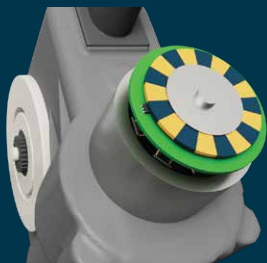
## Applications

- ✓ Linear speed & direction detection: window lifters and closures with anti-pinch features, power lift gates
- ✓ Rotation speed & direction detection: cadence sensor for e-bikes, fans, valves
- ✓ Angular position detection: knobs, jog wheels, DC motor indexing



## Pitch-independent

Sensing, regardless of magnet pole configuration



Window lifter



E-bike cadence



Thermal valve



[www.melexis.com/dual-Hall-effect-latch](http://www.melexis.com/dual-Hall-effect-latch)

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