Latch ICs

Melexis Hall-effect and inductive Latch ICs optimize commutation, speed sensing, direction detection, quadrature encoding, and position indexing across DC, BLDC, PMSM, and stepper motors.



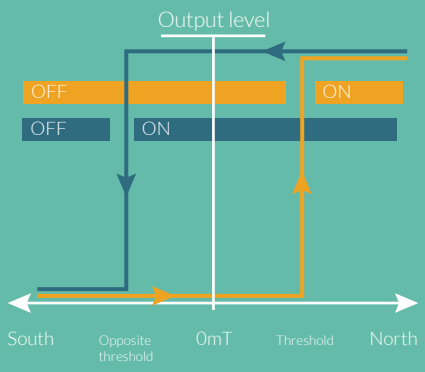
Key features

- Best features / cost offering
- Broadest portfolio (Magnetic/Inductive)
- High integration (lateral sensing, PCB-less)
- Proven robustness (ESD up to 15 kV HBM, EMC)
- Safety & compliance (up to ASIL B, AEC-Q100)
- Package TSOT and options for UA, VA, DFN, SOIC-8



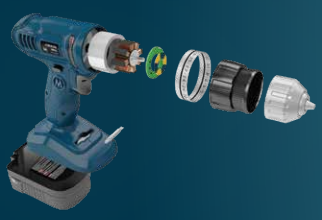
Highlights

	#wires	Supply	Sensing axis	Extra
MLX92221Bx	2	2.7 to 24 V	Z or X	Programmable current loop, PCB-less
MLX92211Ax	3	2.7 to 24 V	Z or X	Factory pre-set, direct 12 V battery
MLX92211Bx	3	2.7 to 24 V	Z or X	Programmable thresholds (open-drain)
MLX92212	3	2.5 to 5.5 V	Z	Low-voltage MCU (3.3 V / 5 V)
MLX92271	3	3.1 to 18 V	Z or X	µPower, diagnostic safety pulse
MLX92251	4	2.7 to 24 V	Z	Speed & direction (1.45 mm pitch)
MLX92352	4	2.7 to 60 V	Z, Y and X	Quadrature, pulse/direction, PCB-less (up to 60 V)
MLX92253	4	2.5 to 5.5 V	Z and X	Dual speed or quadrature, low jitter



Latch everywhere

- Automotive Body & Comfort Motors
- Powertrain, Thermal & Actuator Motors
- Consumer & Industrial Motors
- Next-Gen E-Mobility Actuators



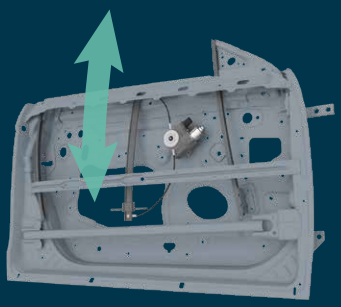
Power tools



Seat motors



Power lift gates



Window lifter



E-bike cadence



Thermal valve

ASIL

melexis.com/
latch-and-switch-ics

v1/11-2026
The datasheet prevails

Melexis
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