

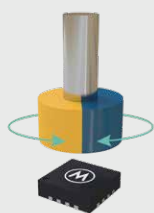
E-bike & E-kickstep

Melexis, a leading semiconductor manufacturer, provides cutting-edge technologies needed for the future of e-mobility. Advanced sensors and drivers are essential for optimizing battery management, enhancing safety, and improving overall performance in electric 2 and 3-wheelers.

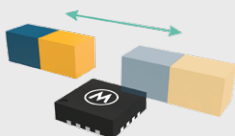


Position Sensor ICs

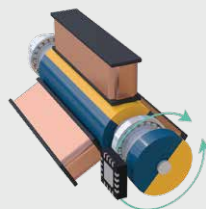
Enhancing performance, efficiency, and safety with accurate and reliable position sensing solutions.



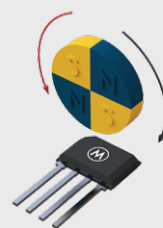
Rotary



Linear



Motor position



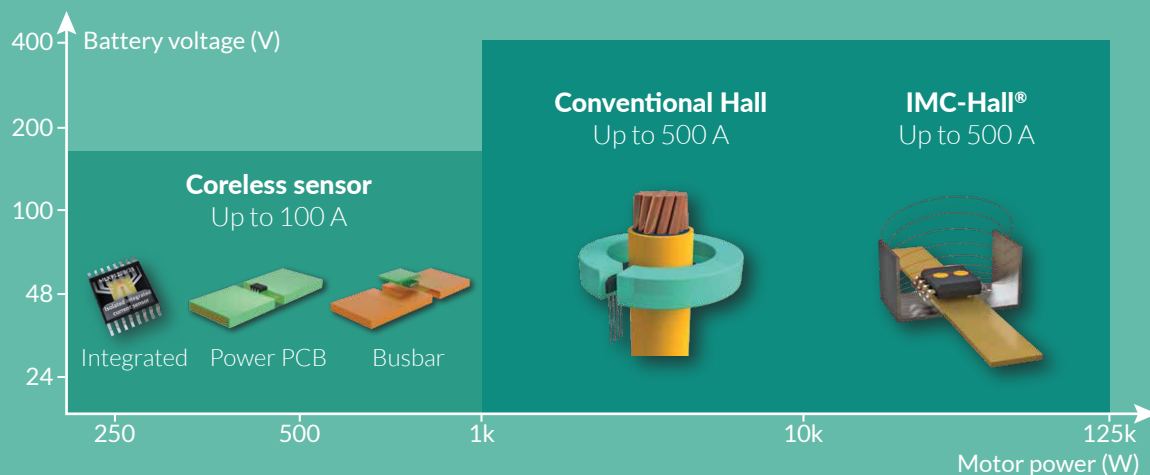
Cadence

Technology choice

- ✓ IC positioning flexibility
- ✓ Application support
- ✓ Large portfolio of magnetic

Current Sensor ICs

Ensure precise current measurement for efficient power management.



Technology choice

- ✓ High accuracy
- ✓ Factory calibrated
- ✓ Dual over-current detection

Smart Tire Sensor ICs

Unlock a new level of safety, performance and range for your 2-wheelers with a Tire Pressure Monitoring System (TPMS). We support both tire-mount and valve-mount solutions for easy integration.

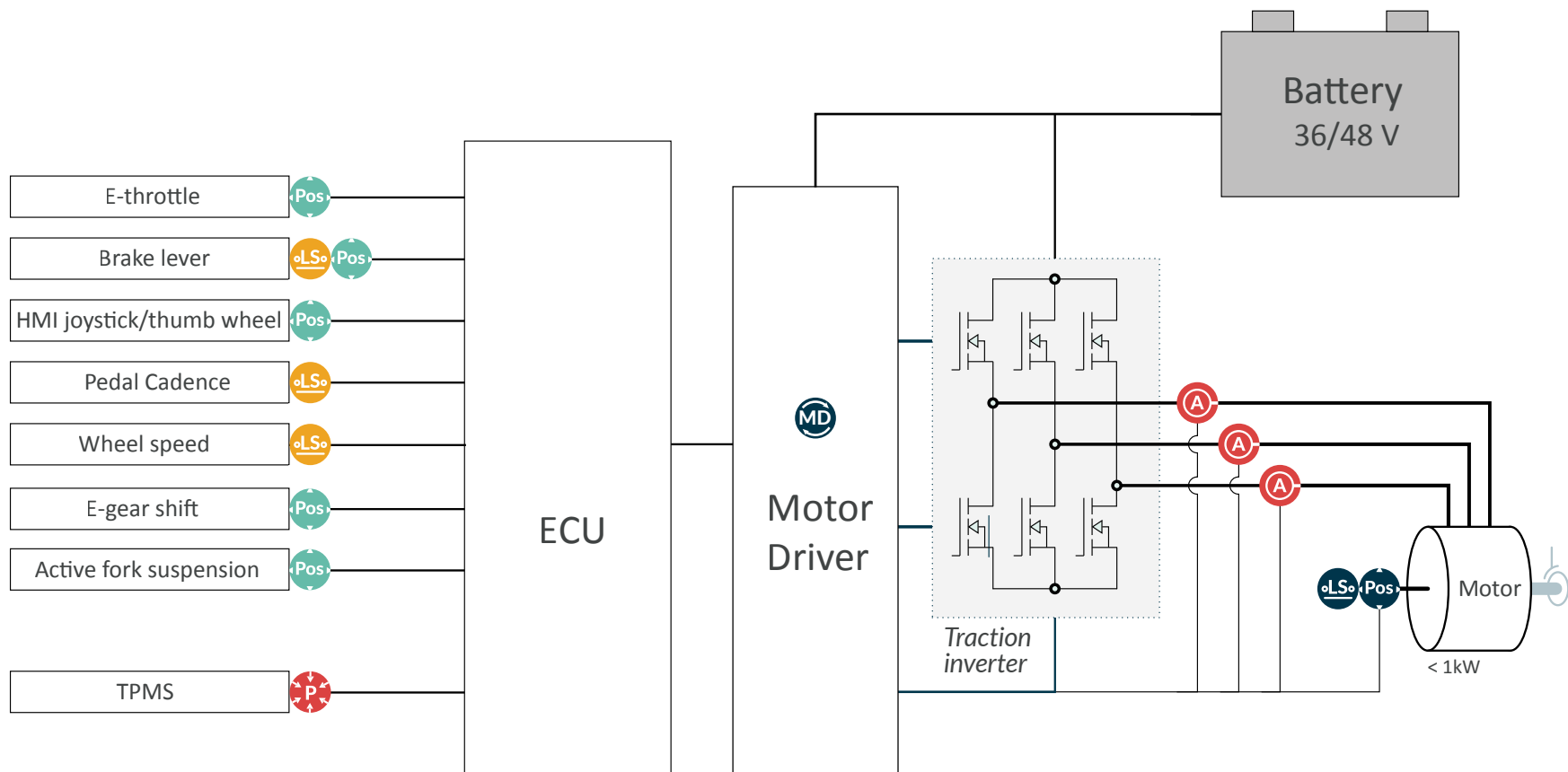
Technology choice

- ✓ XZ-axis accelerometer
- ✓ Tiny DFN package 4x5mm²
- ✓ Ultra low-power
- ✓ Data logging & live reaction



www.melexis.com/E-bike

Melexis



POSITION SENSOR

MLX9042x (magnetic position)
MLX90394 (magnetometer)



LATCH & SWITCH

MLX92253 (dual latch)
MLX92241 (2-wire)
MLX92212/31 (3-wire)



CURRENT SENSOR

MLX91211 (linear Hall)
MLX91220 (coreless integrated)
MLX91235 (coreless external)



POSITION SENSOR

MLX90381 (magnetic resolver)
MLX90382 (magnetic encoder)
MLX90290 (linear Hall)



PRESSURE SENSOR

MLX91804 (TPMS)
MLX91805 (TMS)



LATCH & SWITCH

MLX92211 (latch)