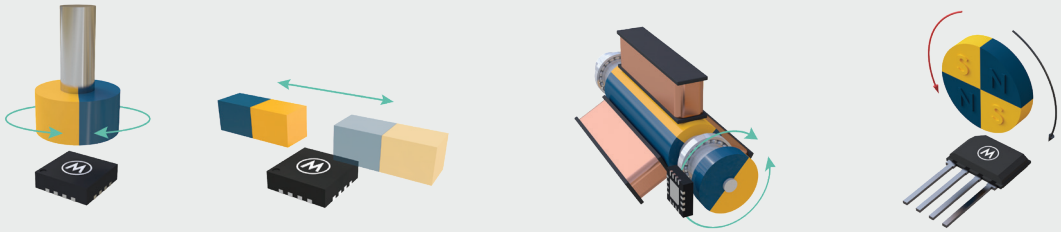
E-bike & E-kickstep



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.



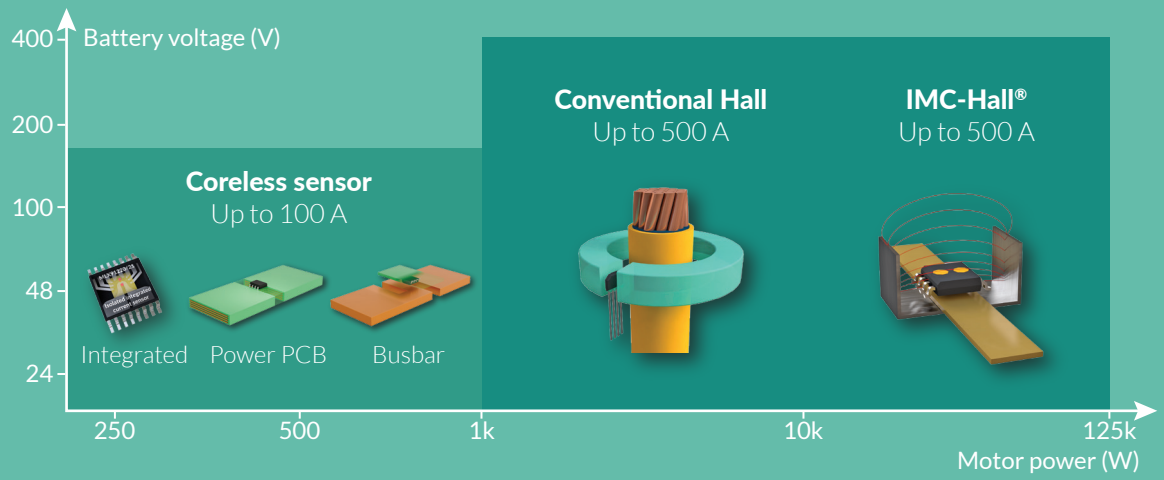
Rotary | Linear | Motor position | Cadence

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.

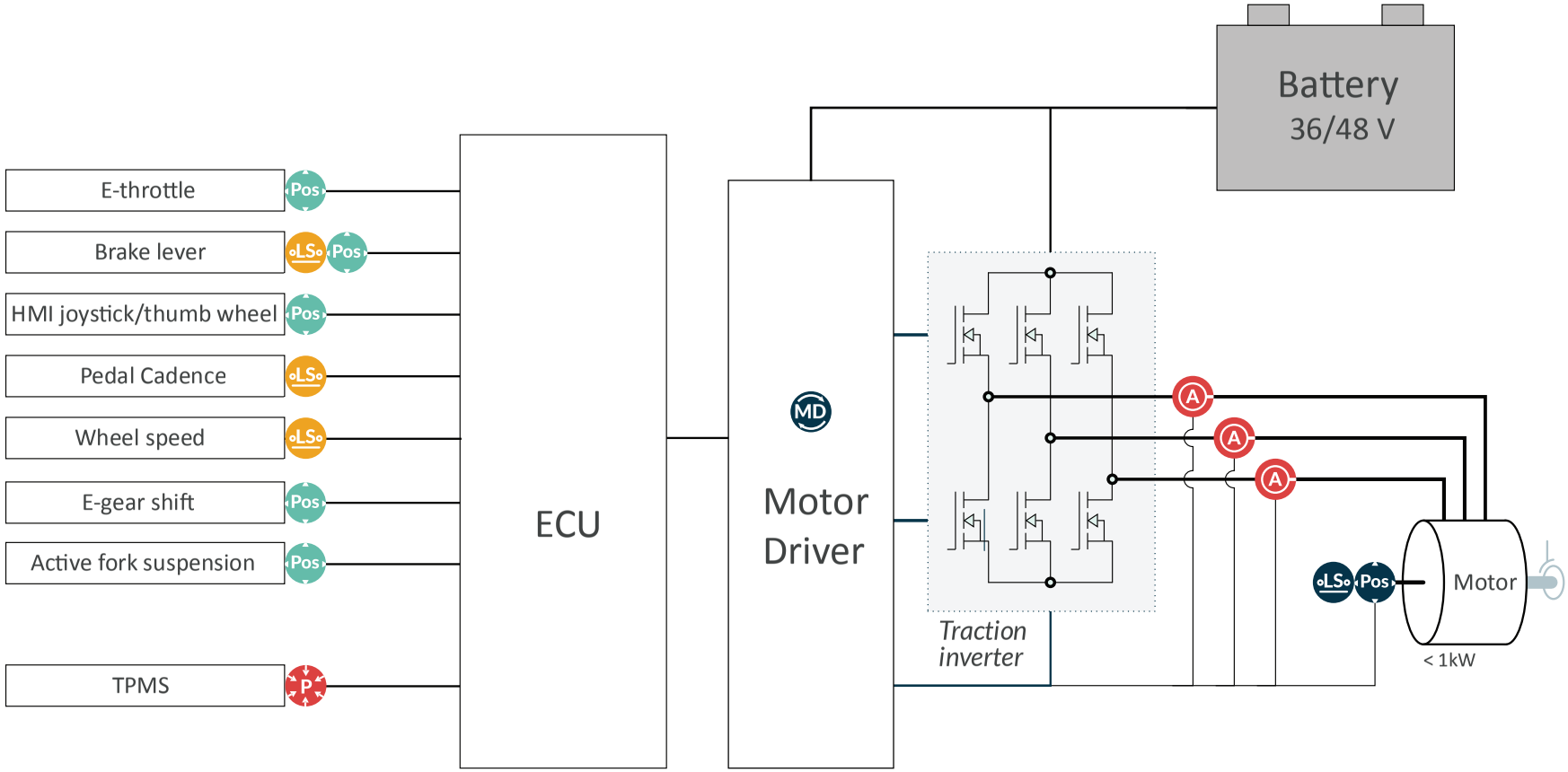


Technology choice

- 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)
MLX91220/24 (coreless integrated)
MLX91235 (coreless external)

POSITION SENSOR

MLX90381 (magnetic resolver)
MLX90382 (magnetic encoder)
MLX90514 (inductive encoder)
MLX90290 (linear Hall)

PRESSURE SENSOR

MLX91804 (TPMS)
MLX91805 (TMS)

LATCH & SWITCH

MLX92211 (latch)