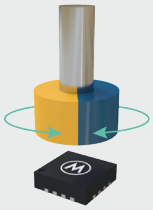
E-Scooter & E-motorcycle

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.

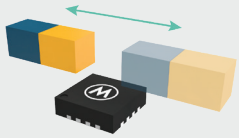


Position Sensor ICs

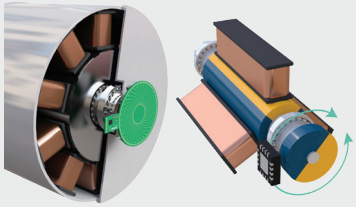
Enhancing performance, efficiency, and safety with accurate and reliable position sensing solutions.



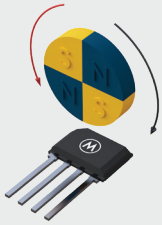
Rotary



Linear



Motor position



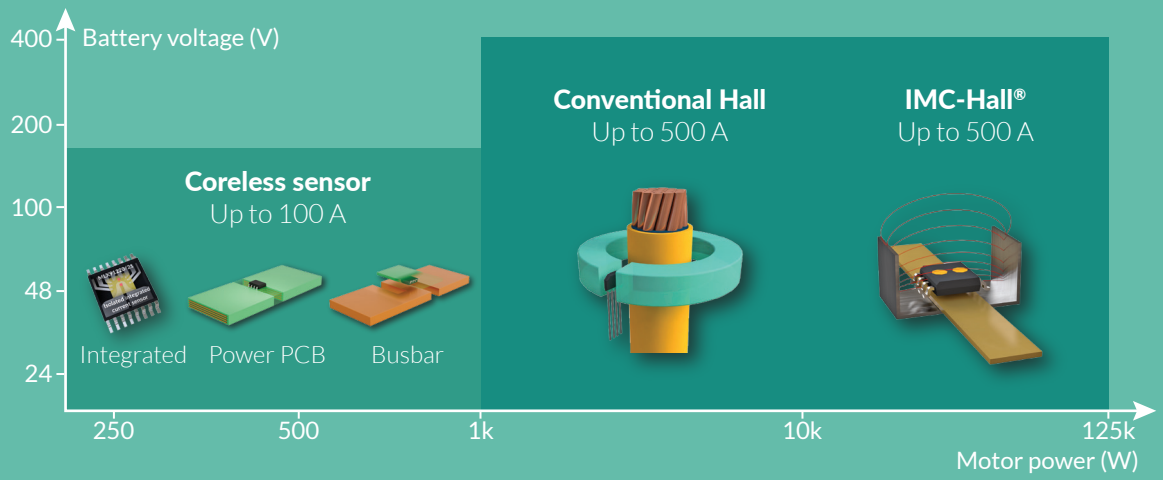
Cadence

Technology choice

- IC positioning flexibility
- Application support
- Large portfolio of magnetic & inductive sensors

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.

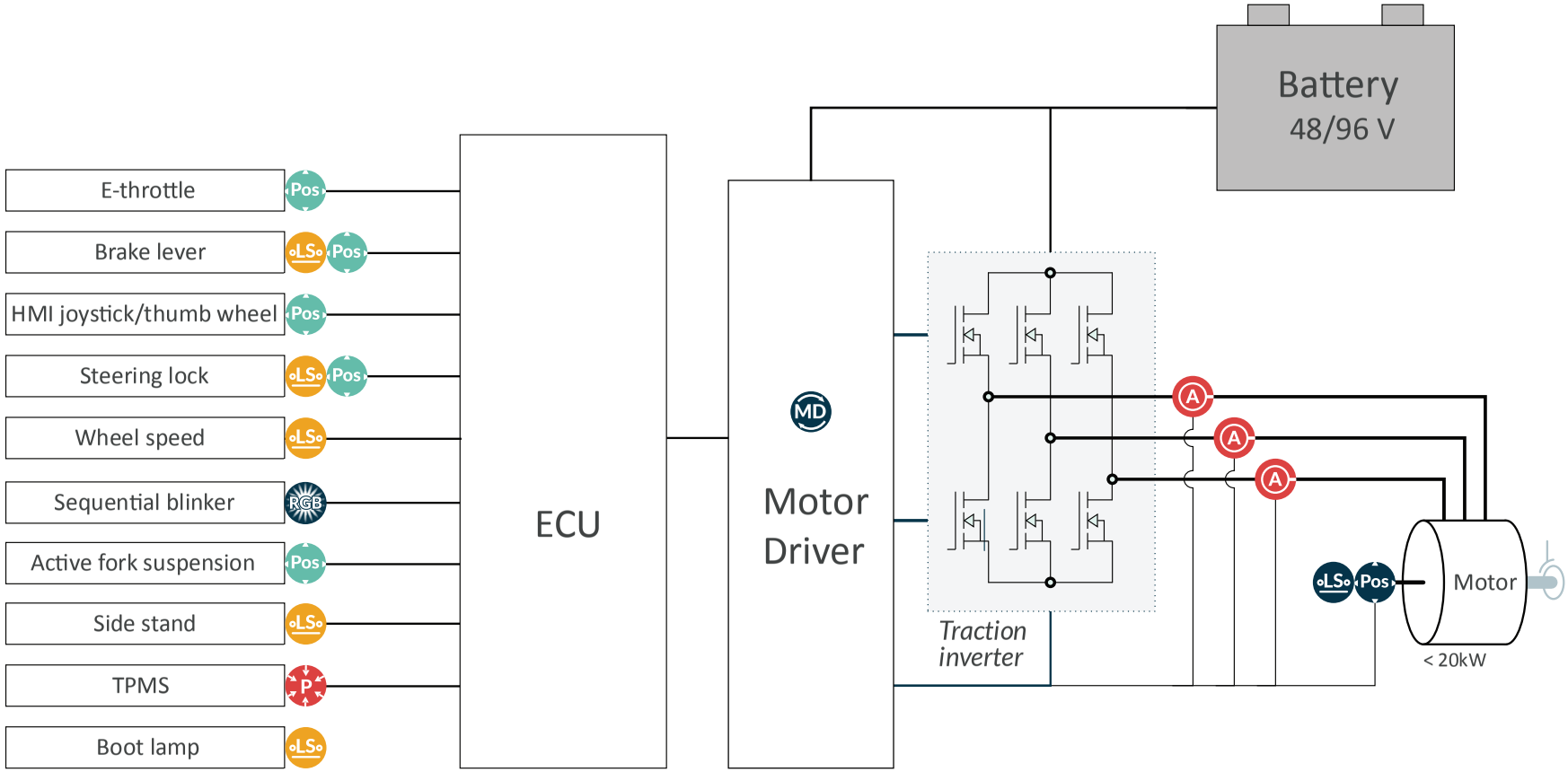


Technology choice

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

www.melexis.com/E-motorcycle

Melexis



POSITION SENSOR

MLX9042x (magnetic position)
MLX90513 (inductive position)
MLX90394 (magnetometer)

LATCH & SWITCH

MLX92253 (dual latch)
MLX92241 (2-wire)
MLX92212/31 (3-wire)
MLX92361 (floating)

CURRENT SENSOR

MLX91211 (linear Hall)
MLX91219 (conventional)
MLX91218 (IMC-Hall®)
MLX91220/24 (coreless integrated)
MLX91235 (coreless external)

POSITION SENSOR

MLX90381 (magnetic resolver)
MLX90510 (inductive resolver)
MLX90382 (magnetic encoder)
MLX90514 (inductive encoder)
MLX90290 (linear Hall)

PRESSURE SENSOR

MLX91804 (TPMS)
MLX91805 (TMS)

SMART LED DRIVER

MLX81118 (LIN RGB)

LATCH & SWITCH

MLX92211 (latch)