

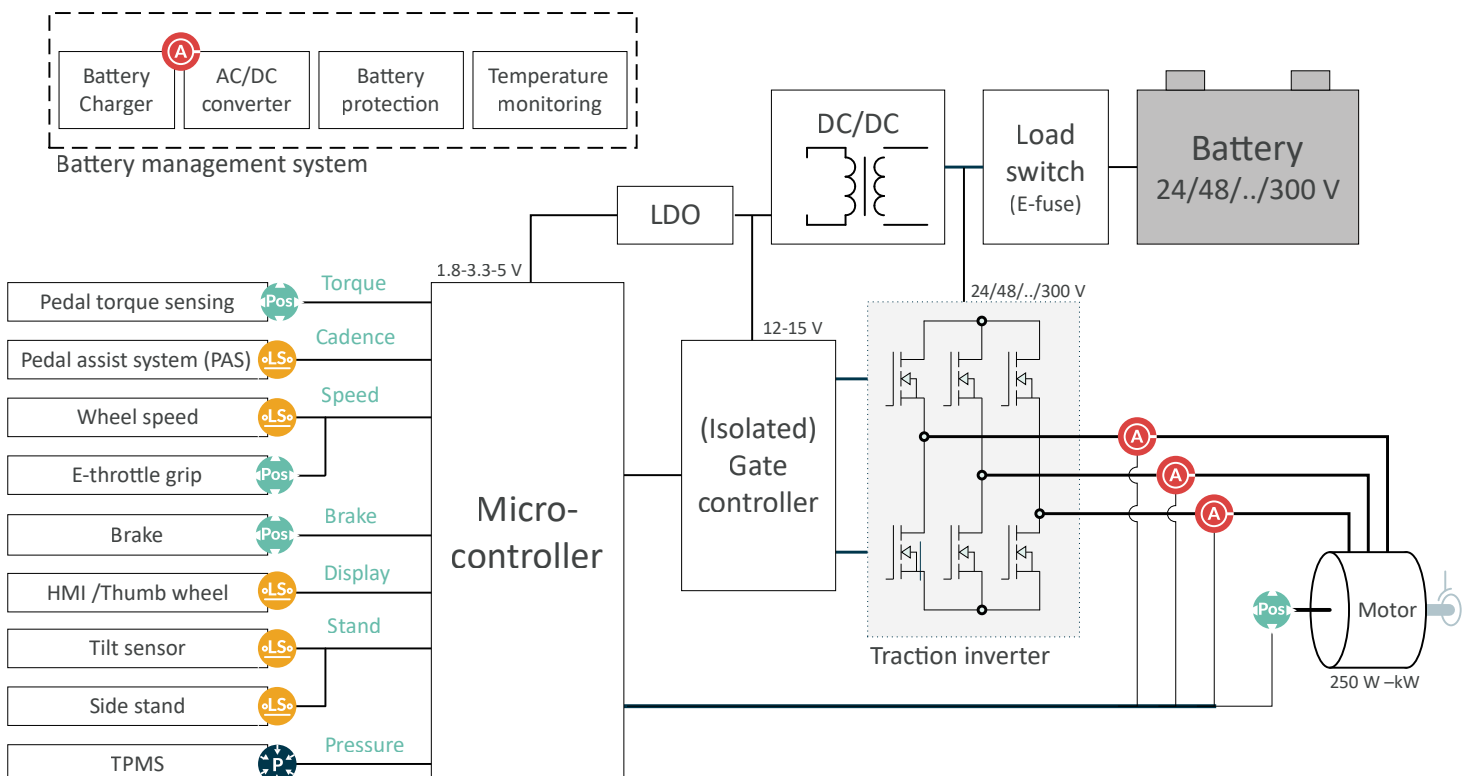
MELEXIS IC SOLUTIONS FOR 2-WHEELERS

The current focus on electric vehicles is boosting the whole e-mobility industry. It is especially beneficial for the 2 and 3 wheelers which also require to solve similar constraints: from battery management (sufficient power, longevity and safety) to drive train efficiency and personalization.

The battery and its management remain the key differentiator in this growing jungle of e-vehicles. It is crucial to not miss the latest semiconductor innovations that make the difference! Discover Melexis solutions for your applications: current sensors, position sensors, latch & switch and also tire pressure monitoring sensors.



Melexis sensor ICs in a typical system

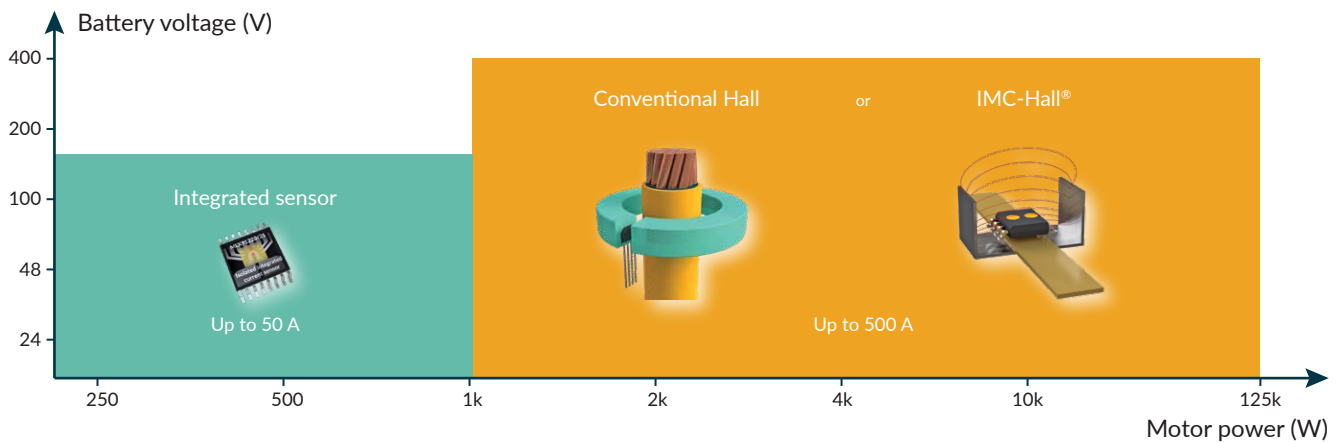


MELEXIS IC SOLUTIONS FOR 2-WHEELERS



Current sensor ICs

- Applications
 - Battery management to make battery last longer
 - Motor feedback loop for performance and efficiency
- Key benefits
 - High accuracy
 - Dual over-current detection
 - Factory calibrated
- Melexis current sensors
 - Conventional Hall > 50 A (MLX91209/17/19, MLX91230)
 - IMC-Hall Shield > 50 A (MLX91208/16/18)
 - Primary integrated < 50 A (MLX91220/21)
 - Shunt > 50 A (MLX91231)



Position sensor ICs

- Applications
 - torque, position or speed measurement
- Melexis positions sensors
 - cadence sensor MLX92352, MLX92251
 - magnetic resolver MLX90381
 - magnetometer MLX90393/94/95
 - linear hall MLX90290
 - Latch & Switches MLX92221/31/41/42
- Key benefits
 - IC positioning flexibility
 - Large portfolio for the right option
 - Application support



Tire pressure sensor ICs

- Applications
 - Tire pressure (TPMS, TMS)
 - Accelerometer
- Melexis TPMS MLX91804/05
- Key benefits
 - 800 g XZ-axis accelerometer
 - Tiny 4 mm x 5 mm DFN package
 - Ultra low-power

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