

## CONNECTING SMART ACTUATORS

Some automotive applications require a synchronized robust actuator solution for 2 or more motors, like the dual-wiper application. Melexis can offer a solid solution with its long experience on smart motor drivers, robust sensors and easy LIN communication interface.

## **KEY FEATURES**





MLX81150: smart LIN motor driver

- Internal RC-Oscillator
- Primary LIN interface to communicate with automotive ECU or next MLX81150 driver
- 4 PWM driver outputs to power accurately a DC motor with a 4x FET bridge
- IC is powered directly by 12V battery, IC can power low-voltage sensors
- SPI interface to connect with smart sensor MI X90363
- SPI interface to connect with 2nd LIN bus using MLX81106 gateway
- MLX90363: robust 360-deg Triaxis® sensor with digital output
  - · Sensor is delivered fully calibrated over voltage and temperature
  - Sensor gives position readings and full diagnostic feedback to MLX81150 over SPI

- MLX81106: smart LIN gateway
  - Smallest and low-price SPI-to-LIN gateway in SO8 package
  - IC receives LIN messages from 1st MLX81150. and transfers to 2nd MLX81150 IC
- Total solution for synchronized actuators
  - High accuracy of positioning
  - Full diagnostics feedback for failsafe operation
  - Operation from -40°C to +150°C
  - Fast sensing and communication of two positions, allowing fast synchronization
  - MLX81150 and MLX81106 come with readyto-use LIN communication software



