

# MELEXIS SOLUTIONS FOR WINDOW LIFT APPLICATIONS

Melexis offers a complete solution kit for DC motors that are used in various applications such as window lifter and sun roof motors. For the actuation Melexis advices the MLX81325, a single-chip LIN predriver in small QFN 5x5 form factor, which enables fine PowerFET control for efficient, low noise drive with smooth start & stop. The MLX81325 is equipped with an 8 pin I/O bus, designed for 3.3V. Melexis position sensors can be directly connected on this IO bus which offers a cost optimized solution. For simple DC motors, MLX92212 and MLX92255 can be directly connected on the 3.3V bus. Both sensors provide a speed output that is used for the motor actuation. Moreover, the MLX92251 offers a speed and direction output so that the direction doesn't need to be computed on the uController.

#### **KEY FEATURES**



MLX81325

- For 12V and 24V applications
- LIN interface
- 48kB memory (32K Flash, 16k ROM)
- 8x multi-function IOs
- 4 integrated pre drivers (<30nC FET)
- Diagnostic
- Current Sense
- MLX92212
  - Single Hall output
  - 2.5V 5.5V
  - ESD: 8kV
- MLX92255
  - Dual Hall Output
  - Speed Speed
  - 2.5V 5.5V
- ✓ MLX92251
  - Dual Hall Output
  - Speed & Direction
  - 2.7V-24V

## **KEY APPLICATIONS**



Sunroof motor

OC motors

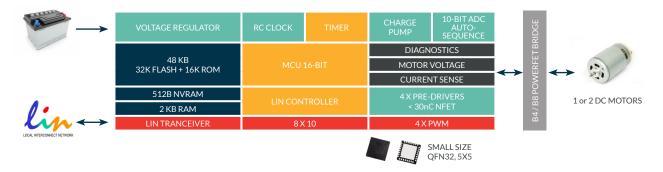
Automotive / Industrial applications



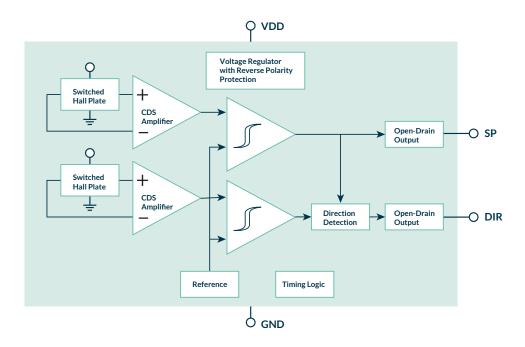




### **BLOCK DIAGRAM MLX81325**



### **BLOCK DIAGRAM MLX92251**



### **BLOCK DIAGRAM MLX92212**

