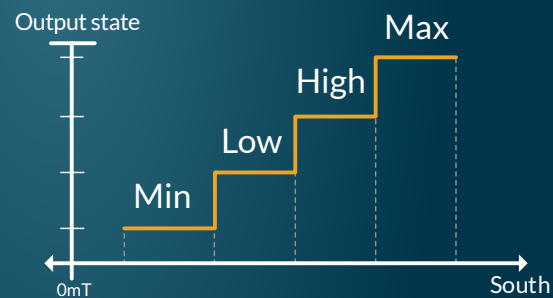


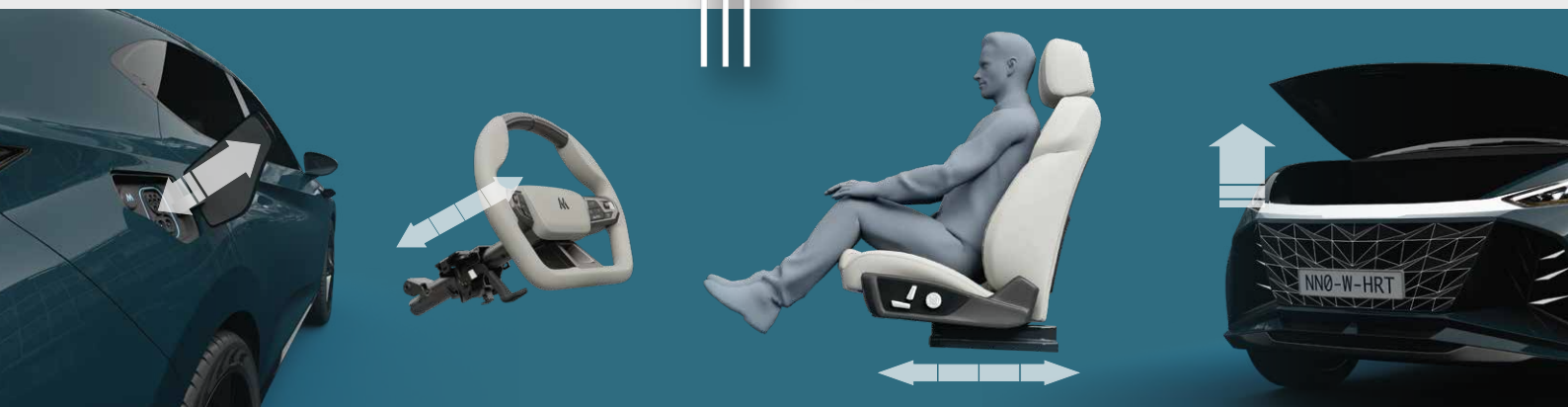
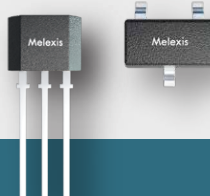
World's first 2-wire 2-bit Switch

MLX92344



Key features

- ✓ Up to 4 output states with a 2-wire current interface
- ✓ Programmable currents from 3mA to 28mA
- ✓ Programmable dual magnetic thresholds pairs
- ✓ Programmable magnetic Latch, Unipolar or Omnipolar Switch functions
- ✓ Temperature compensation coefficient in the range -2000 to 0 ppm/°C
- ✓ Wide magnetic range from 0.5mT to 200mT (40mT for IMC variant)
- ✓ Optional IMC integration for lateral magnetic sensing (X or Y)
- ✓ Diagnostics
 - Integrated self-diagnostic functions activating a dedicated Safe State
 - Parallel or Sequential diagnostic modes
- ✓ Operating voltage range from 2.7 V to 28 V (32 V AMR)
- ✓ Operating temperature from -40°C to +150°C
- ✓ Certifications
 - ISO 26262 ASIL B SEooC
 - AEC-Q100
 - ESD level (8 kV HBM, 15 kV system-level)
- ✓ Packages, RoHS compliant
 - UA (Through hole)
 - UA with integrated capacitor (PCB-less)
 - TSOT23 (Surface mount)
- ✓ Integrated protections
 - Reverse supply voltage protection
 - Thermal protection
 - Under-voltage reset



Save 1 wire everywhere

- Seat position
- Seatbelt buckle
- Steering column motor
- Active air skirt, flaps & e-vents
- Expansion valves & pumps
- Brake fluid level sensor
- Wheel speed sensor
- Transmission applications

"The MLX92344 gives engineers a smarter way to replace multiple microswitches, enabling smaller, safer, and more flexible body electronics."

— Minko Daskalov, Melexis



melexis.com/
MLX92344