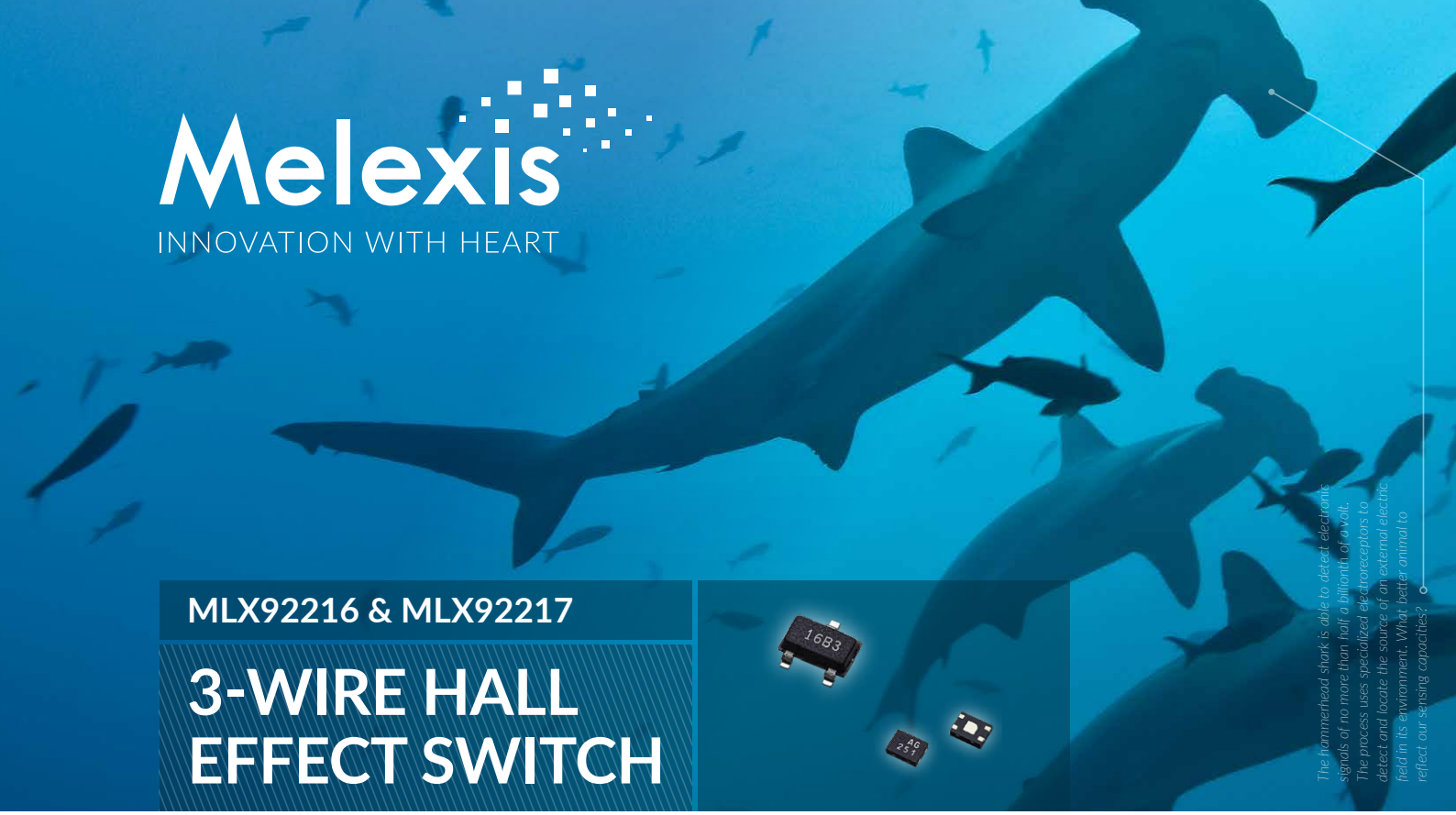
Melexis

INNOVATION WITH HEART



MLX92216 & MLX92217

3-WIRE HALL EFFECT SWITCH

ULTRA-LOW POWER LATCH & SWITCH FOR CONSUMER AND INDUSTRIAL

The MLX92216 and MLX92217 are micropower Hall effect switches. They offer 1 microwatt power consumption and narrower tolerances which enable predictable power budget, helping to extend battery runtime. These magnetic devices are ideal for replacing traditional reed switches in Internet of Things (IoT), industrial and white good applications.

KEY FEATURES

- Micropower consumption in operation (e.g. 0.9µA at 1.8V/11Hz)
- 1 microwatt in power down state (200nA at 5V with enable pin)
- Best in class min/max IDD tolerances for a stable and predictable power budget
- Typical sleep current 0.65 µA at 1.8V
- Operating voltage range from 1.6V to 5.5V
- Push-pull or Open Drain output type
- No external components required
- Selectable Sleep time 0.6ms to 800ms
- Ambient temperature from -40°C to 85°C
- Chopper stabilized very sensitive Hall sensor
- Selectable magnetic thresholds and temperature coefficient
- Various magnetic functions: Unipolar, Omnipolar Switch or Latch
- Under-Voltage Reset protection
- Packages, RoHS compliant
  - DFN-4L (LQ) 1.2mm x 1.6mm
  - TSOT-3L (SE) 2.8mm x 2.9mm

open-close detection

WWW.MELEXIS.COM/MLX92216-MLX92217

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APPLICATIONS

- Reed switch replacement
- Open/close detection
- Proximity sensor
- Consumer electronics (i.e. TWS)
- Battery powered, Handheld devices
- Industrial & medical appliances
- White goods, smart lock & IoT devices
- Energy & Flow metering