Product Information

Micropower Hall-Effect Latch for Scrolling Applications

MLX92213

The MLX92213 features an ultra-sensitive Hall-effect Latch operating from 1.6V to 3.6V. The output is a "Push-Pull" type so that an external pull-up resistor is not needed for proper operation, hence reducing PCB component count.

The device is primarily targeting battery-operated applications. As the famous Melexis Hall-Effect

Omnipolar Switch MLX90248, the MLX92213 employs an awake/sleep strategy to reduce its power consumption versus a standard Hall-Effect latch sensor.

This Micropower Hall-effect Latch is an ideal solution for use in speed and direction detection application based on multipole magnet assembly for portable and low-power devices.



- Battery-operated / Handheld Appliances
- Rotary or Linear Contact-Less Encoders
- Scroll/Jog Wheel, Trackball (Mobile Phones, Portable Media Players, Notebooks, Computer Mice, Camcorders, Came

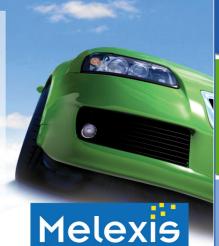
Notebooks, Computer Mice, Camcorders, Cameras,...)

• Home/Industrial Metering Equipment (Wafer Flow Meter)

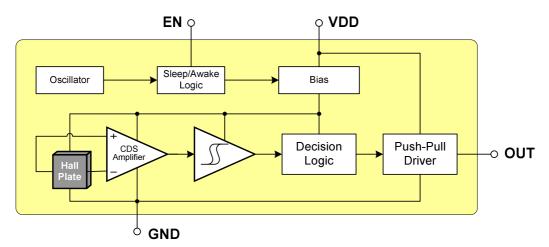


- Operating Voltage from 1.6 to 3.6V
- Latching Output Behaviour
- Micropower Consumption 48uA@3V; 36uA@1.8V
- Advanced Power Manageability through dedicated "Enable" pin
- Ultra High Sensitivity Hall Sensor
- Push-Pull Output
- Miniature & Ultra Thin CSP package (2mm x 1.5mm; 0.4mm thickness)
- "Green" and "Pb-Free" Compliant Package

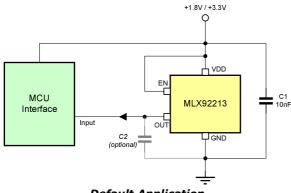




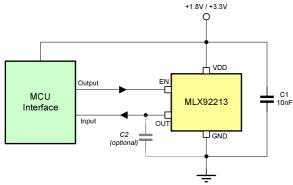
Functional Diagram



Application



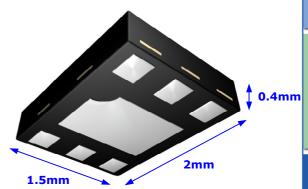
<u>Default Application</u>
1.8V or 3.3V application with MCU interface reading the OUT signal with default "Micropower"

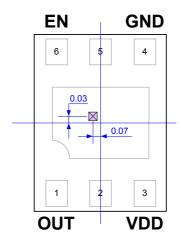


Enhanced Power Management Application

Typical 1.8V or 3.3V application with MCU interface reading the OUT signal and driving the EN signal

Pin-out & Hall Plate Location





LD package (Ultra-Thin QFN) - top view

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