



## SparkFun Triple Axis Accelerometer Breakout - H3LIS331DL

SEN-14480 [RoHS Open Source Hardware](#)

The SparkFun H3LIS331DL Triple Axis Accelerometer Breakout is a low-power, high-g accelerometer with I<sup>2</sup>C and SPI interface options. Though not necessarily good at detecting minute changes, the H3LIS331DL is great for grueling conditions that normal accelerometers aren't suited for. With a shock survivability of 10000g and a handy sleep-to-wake function, the H3LIS331DL breakout makes the perfect board for shock and collision detection as well as impact recognition and logging.

This breakout offers an adjustable output range of 100, 200 or 400g, and an adjustable data rate of 0.5kHz to 1kHz. While normally operating at 2.16V–3.6V, the SparkFun H3LIS331DL Triple Axis Accelerometer Breakout does feature a pretty impressive low-power mode with low-voltage compatible IOs at 1.8V with a power consumption rate of 10 $\mu$ A. Each pin has been broken out into breadboard-friendly 0.1" pins, and we've also added convenient mounting holes that allow you to attach the breakout to whatever ingenious project you can think up.

## Features

- Wide supply voltage, 2.16V to 3.6V
- Low-voltage compatible IOs, 1.8V
- Ultra-low power consumption down to 10 $\mu$ A in low-power mode
- $\pm 100g/\pm 200g/\pm 400g$  dynamically selectable full scales
- I<sup>2</sup>C & SPI digital output interface
- 16-bit data output
- Sleep-to-wake function
- 10000g high-shock survivability

