

Fermion I²C H3LIS200DL Triple Axis Accelerometer

SEN0408

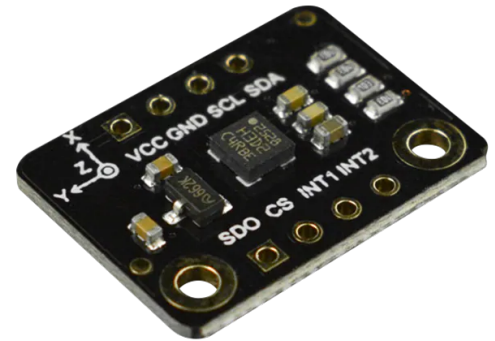
Product Overview

12-02-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot Fermion I²C H3LIS200DL Triple Axis Accelerometer is an ultra-low-power (down to 10 μ A) and low-noise 3-axis accelerometer. This accelerometer includes user-selectable scales of $\pm 100g/\pm 200g$ and is capable of measuring accelerations with output data rates from 0.5Hz to 1kHz range.



The triple-axis accelerometer features a 3.3V operating voltage, 8-bit data output, 10000g high shock survivability, and I²C/SPI interface. This accelerator also features two programmable independent interrupt engines that are able to recognize dedicated inertial events. The triple axis accelerometer can be used in high-speed impact detection and recording, free-fall detection, and automobile collision test.

Features

- Selectable large-scale range:
 - $\pm 100g/\pm 200g$
- Two programmable interrupts
- Smart sleep-to-wake-up function that allows advanced power saving

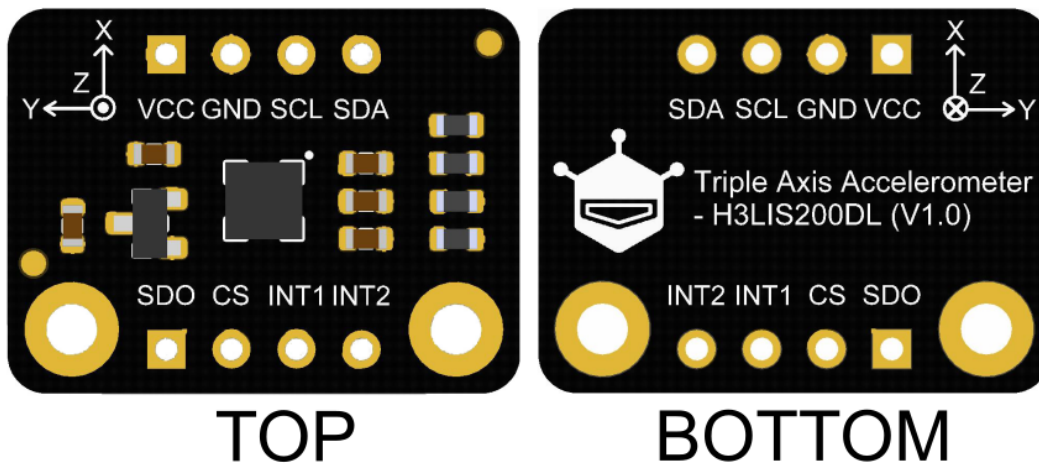
Specifications

- | | |
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| • 3.3V operating voltage | • Wake-up function |
| • Minimum 10 μ A (low-power mode) / 0.3mA to 0.4mA (normal mode) operating current range | • ECOPACK [®] RoHS and Green compliant |
| • I ² C/SPI interface | • -40°C to 85°C operating temperature range |
| • 0x19 (default) / 0x18 (optional) I ² C address | • 5mm x 20mm module size |
| • 0.5Hz to 1KHz frequency range | • Inner diameter 3.1mm / outer diameter 6mm mounting hole size |
| • 8-bit data output | |

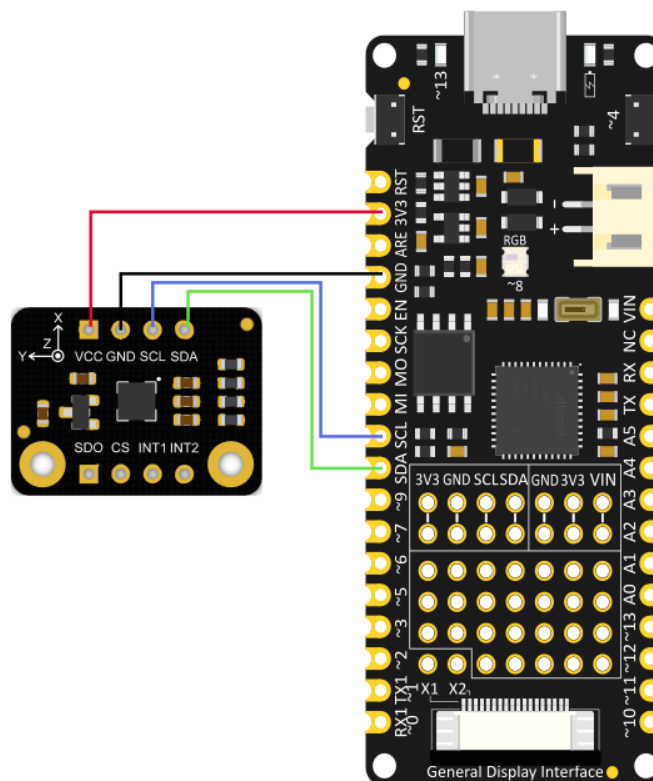
Applications

- High-speed impact detection and recording
- Free-fall detection
- Automobile collision test

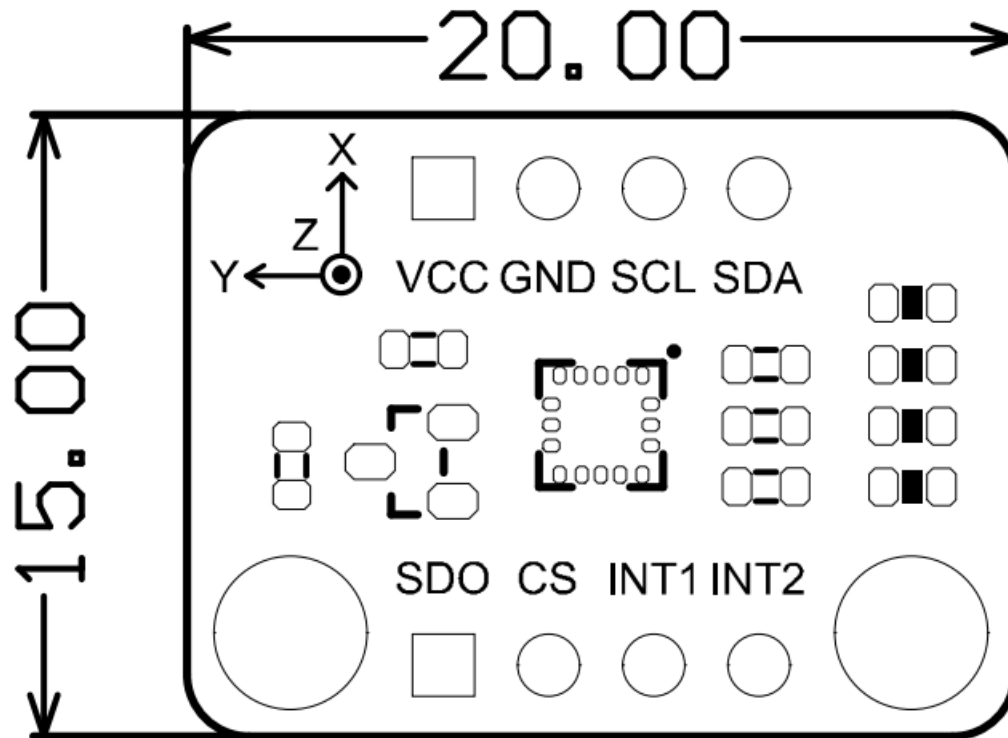
Board Overview



Connection Diagram



Dimension Diagram



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-fermion-accelerometer/>