

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 $\pm 100\text{g}/\pm 200\text{g}$ 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:
 - $\pm 100\text{g}/\pm 200\text{g}$
- Two programmable interrupts
- Smart sleep-to-wake-up function that allows advanced power saving

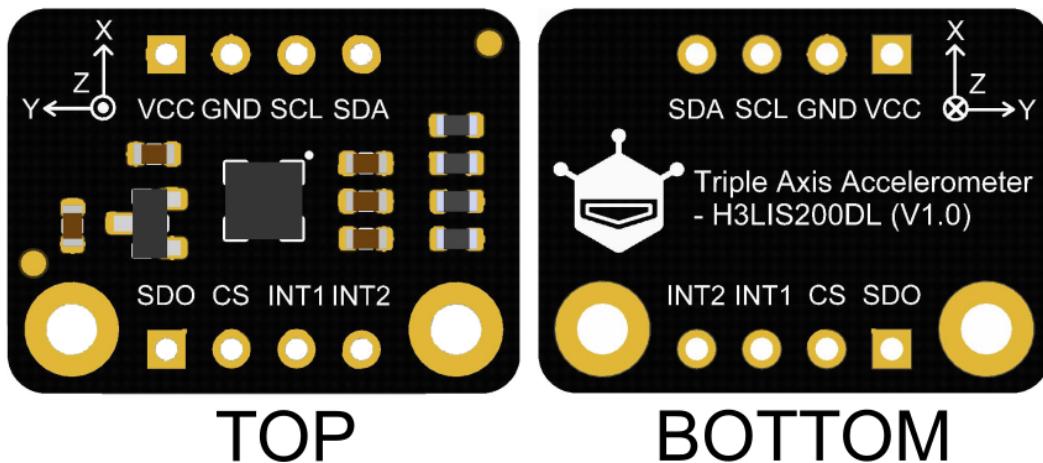
Specifications

• 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	

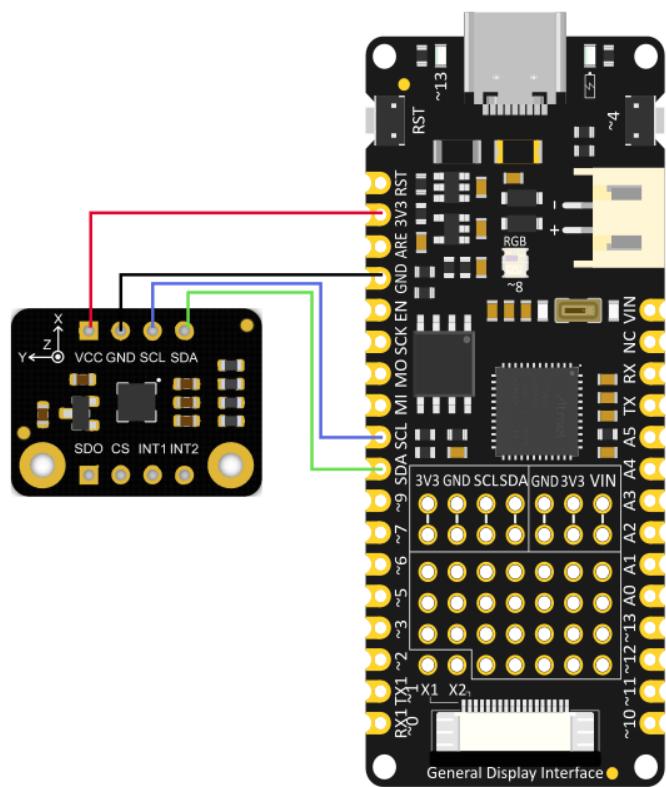
Applications

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

Board Overview

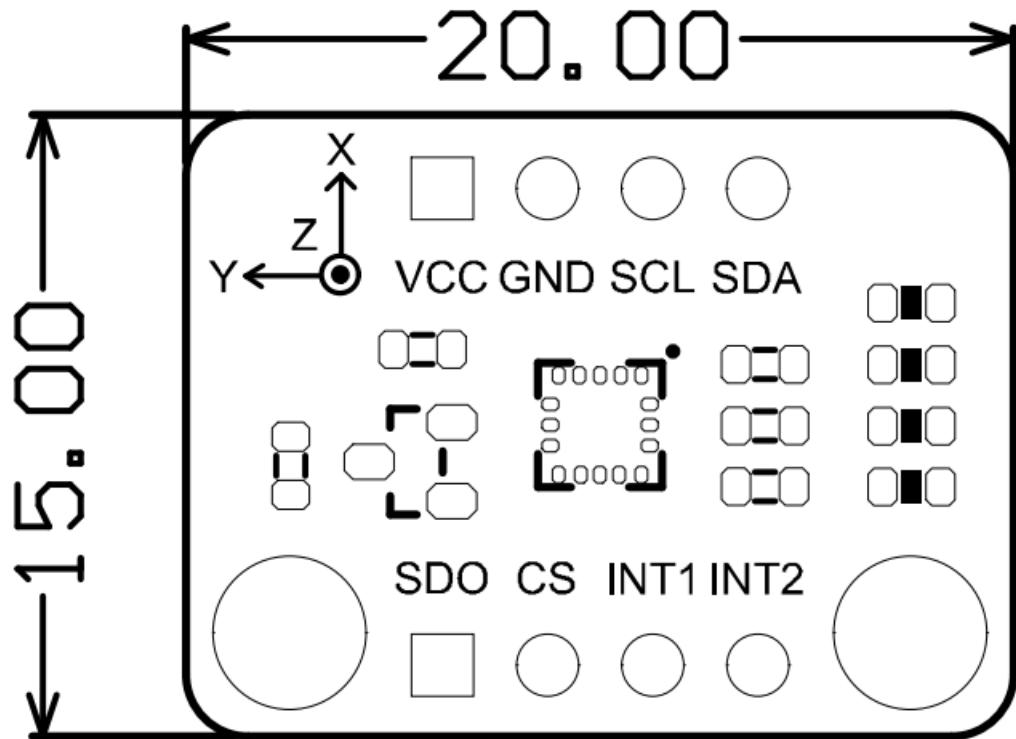


Connection Diagram



The information contained in this document should be used as a guideline only.

Dimension Diagram



Mouser Part Number

[View Part](#)

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