

LIS331HH Triple Axis Accelerometer Sensor

SEN0411

Product Overview

11/03/2022

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

Description

DFRobot LIS331HH Triple Axis Accelerometer Sensor is a high-performance 3-axis linear accelerometer offering ultra-low power consumption of 10 μ A. The LIS331HH triple-axis accelerometer sensor gives a 16-bit data output, features an easy-to-use gravity interface, and can change the I²C address by the toggle switch. LIS331HH triple-axis accelerometer sensor is ECOPACK, RoHS, and Green compliant.



This sensor comes in user-selectable scales of $\pm 6g/\pm 12g/\pm 24g$ and is capable of measuring accelerations with 0.5Hz to 1KHz output data rates range. This sensor operates at a 3.3V to 5V voltage range and a -40°C to 85°C temperature range. The applications are in navigation, smart agriculture, robotics, and VR/AR.

Features

- $\pm 6g/\pm 12g/\pm 24g$ selectable scales
- ECOPACK, RoHS, and "Green" compliant
- I²C address:
 - 0 x 19 (Default)
 - 0 x 18 (Optional)
- Change the I²C address by the toggle switch
- Easy-to-use gravity interface and no need to solder
- Gravity I²C interface

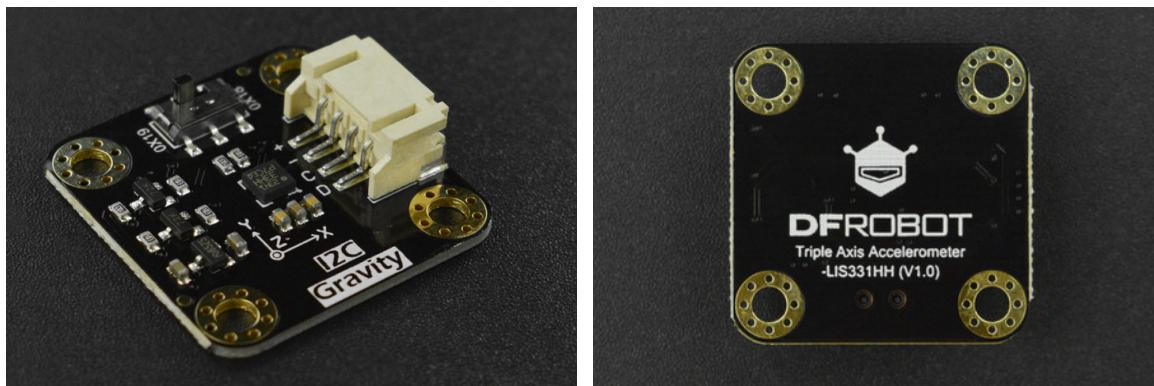
Specifications

- | | |
|---|--|
| <ul style="list-style-type: none">• 3.3V to 5V operating voltage range• -40°C to 85°C operating temperature range• 16-bit data output• 10000g high shock survivability• 27mm x 27mm dimensions• Mounting hole size:<ul style="list-style-type: none">• 3mm inner diameter• 6mm outer diameter | <ul style="list-style-type: none">• 0.5Hz to 1KHz frequency range• Selectable scale:<ul style="list-style-type: none">• $\pm 6g/\pm 12g/\pm 24g$• Operating current:<ul style="list-style-type: none">• 10μA (Low power mode)• 3μA (Normal mode) |
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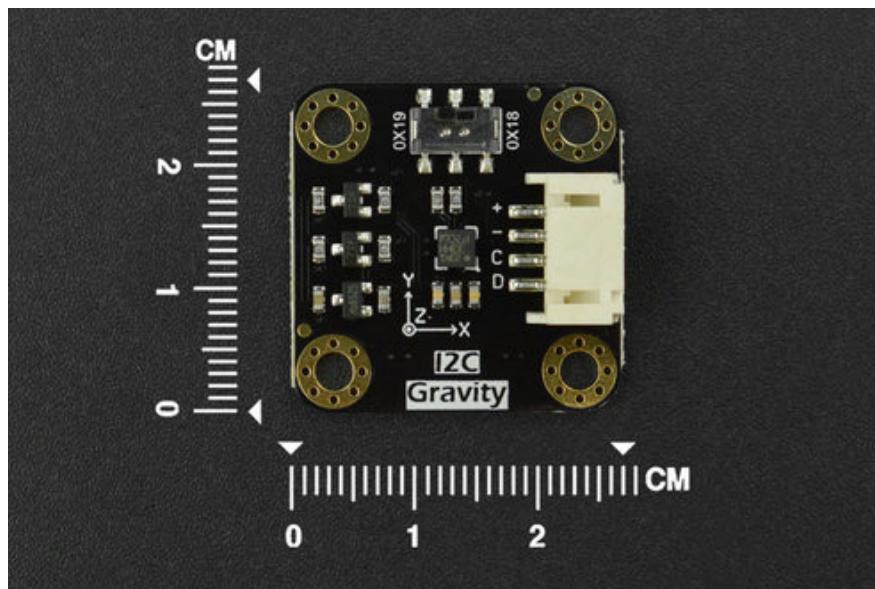
Applications

- Free-fall detection
- Motion-activated functions
- Gaming and virtual reality input devices

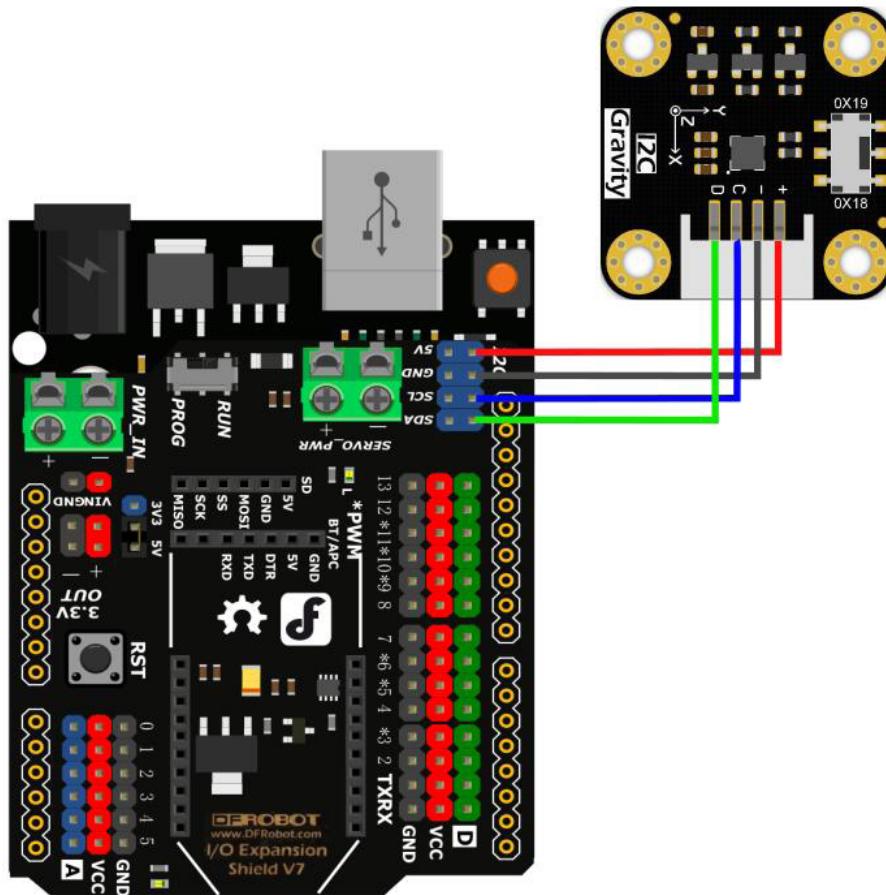
Sensor Overview



Board Dimension



Connection Diagram



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-lis331hh-triple-axis-accelerometer-sensor/>