

Grove - 3-Axis Analog Accelerometer $\pm 40g$ (ADXL356C)

SKU 101020638

The Grove - 3-Axis Analog Accelerometer $\pm 40g$ (ADXL356C) is a analog output industrial grade, high stability, high precision and low power ADI ADXL series three-axis accelerometers.

You can find a variety of [3-axis accelerometers](#) on our website that can meet different scenarios and needs. This time, we bring you the industrial grade, high stability, high precision and low power ADI ADXL series three-axis accelerometers.

The Grove - 3-Axis Analog Accelerometer $\pm 40g$ (ADXL356C) is an analog output [MEMS](#) Accelerometer. This sensor has two selectable measurement ranges: $\pm 10g$, $\pm 40g$. You just need to do little calibration work to get a relatively accurate result. The On-Board grove port can output two-channel analog data: one for Z-axis, one for X/Y-axis. You can choose output the X-axis or Y-axis signal with the onboard switch. Also, you can use the 4-pin welding hole to output X/Y/Z axis at the same time. The power consumption of this sensor is extremely low, $150 \mu A$ in normal operation mode and even only $21 \mu A$ in standby mode. You can switch the operating mode by changing the pad connection on the back.

The ADI ADXL Series Accelerometer includes four products that will meet your different range and output needs:

Product	Measurement Range	Output Port	Power Consumption
Grove - 3-Axis Analog Accelerometer $\pm 20g$ (ADXL356B)	$\pm 10g$ $\pm 20g$	Analog	measurement mode: $150 \mu A$ standby mode: $21 \mu A$
Grove - 3-Axis Analog Accelerometer $\pm 40g$ (ADXL356C)	$\pm 10g$ $\pm 40g$	Analog	measurement mode: $150 \mu A$ standby mode: $21 \mu A$
Grove - 3-Axis Digital Accelerometer $\pm 40g$ (ADXL357)	$\pm 10g@51200$ LSB/g $\pm 20g@25600$ LSB/g $\pm 40g@12800$ LSB/g	Digital I2C	measurement mode: $200 \mu A$
Grove - 3-Axis Digital Accelerometer $\pm 200g$ (ADXL372)	$\pm 200g$	Digital I2C	measurement mode: $22 \mu A$

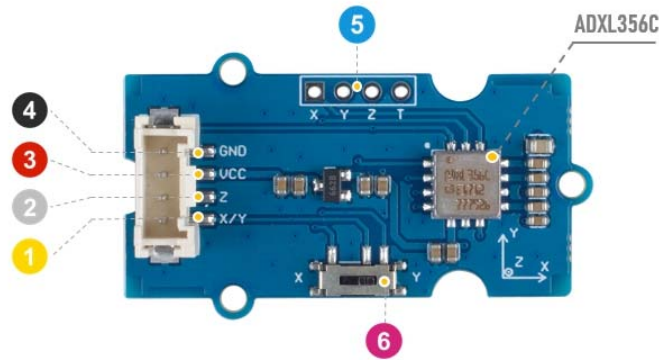
Features

- Industry-leading noise, minimal offset drift over temperature, and long-term stability, enabling precision applications with minimal calibration.
- Hermetic package offers excellent long-term stability 0 g offset vs. temperature (all axes): $0.75 \text{ mg}/^\circ\text{C}$ maximum
- The low noise of the ADXL356 over higher frequencies is ideal for wireless condition monitoring
- Low drift, low noise
- Ultra low power consumption: Normal operation mode- $150 \mu A$, Standby mode $21 \mu A$

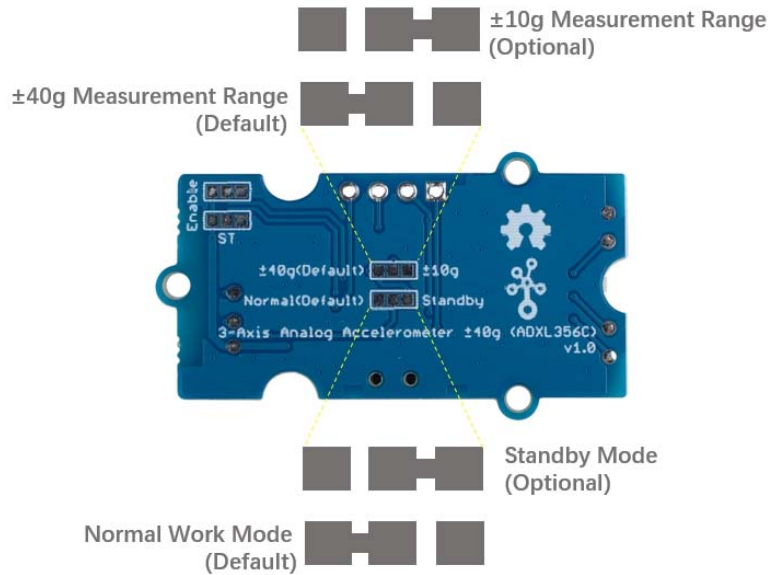
Applications

- Inertial measurement units (IMUs)/altitude and heading reference systems (AHRs)
- Platform stabilization systems
- Condition monitoring
- Seismic imaging
- Tilt sensing
- Robotics

Pinout



- 4 GND:** connect this module to the system GND
- 3 VCC:** you can use 5V or 3.3V for this module
- 2 Z:** Z-axis analog data output
- 1 X/Y:** X-axis or Y-axis analog data output
- 5 4 Pin Output:** X/Y/Z axis analog data output, Temperature output
- 6 Switch:** switch X/Y output



ECCN/HTS

ECCN	7A994
HSCODE	9031900090
UPC	

