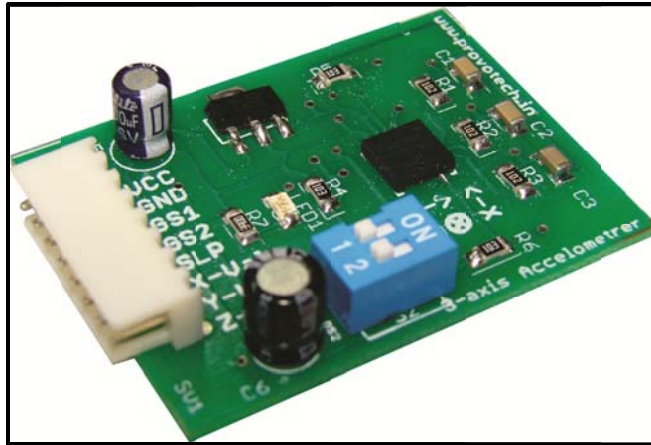




3 Axis Accelerometer

This is easy to use 3 axis analog accelerometer with easy interface to application circuit and has 4 selectable sensitivity options.



Package Contents:

- 3-Axis Accelerometer Board.
- 8 PIN wire Connector.
- Documentation.

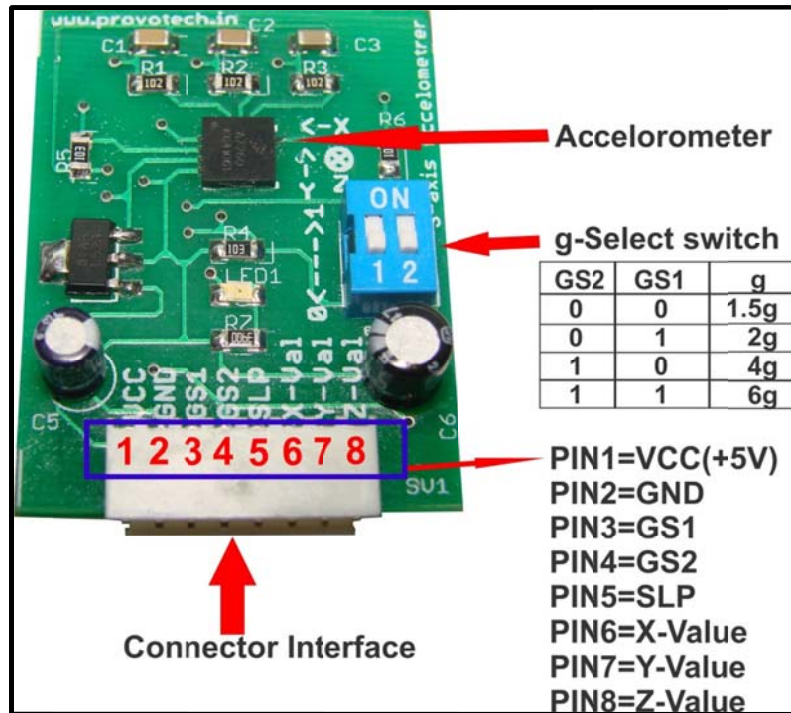
Features:

- Supply power: 5V DC
- Low Current Consumption: 500 μ A
- Selectable sensitivity (1.5g/2g/4g/6g)
- High Sensitivity (800 mV/g @ 1.5g)
- Fast Turn On Time
- Integral Signal Conditioning with Low Pass Filter
- Direct interface to microcontroller ADC Pins
- Onboard switches for sensitivity selection

PROVOTECH



PINOUT:



Connections:

PIN1=VCC (+5 Volts max)

PIN2=GND

PIN3=GS1

PIN4=GS2

PIN5=SLP (Sleep mode) A low input signal on This PIN will place the device in this mode and by placing a high input signal on this PIN, the device will resume to normal mode of operation.

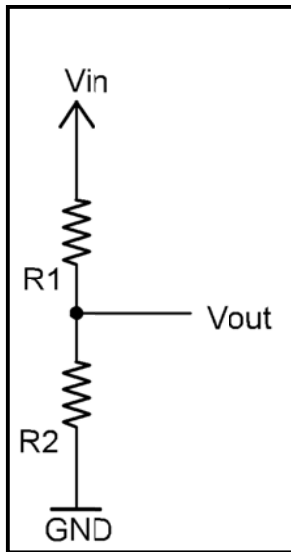
PIN6=X-Value (Analog output)

PIN7=Y-Value (Analog output)

PIN8=Z-Value (Analog output)

Note1: Connect the supply voltage with correct polarities and also do not provide the supply voltage at VCC PIN more than +5Volts otherwise the device may get damaged.

Note2: While applying control signals externally from microcontroller or other peripheral circuits to the GS1, GS2 or SLP PINS make sure that the voltages at these PINS should not exceed 3.3V. User can use onboard switches to select the sensitivity or in case of external control signal from microcontroller user can pull down the TTL level signals from +5Volts to the 3.3V by using the Voltage divider circuit as shown below:



$$V_{out} = \frac{R_2}{R_1 + R_2} V_{in}$$

g-Select:

The g-Select feature allows for the selection among 4 sensitivities present in the device. Depending on the logic input placed on GS1 and GS2, the device internal gain will be Changed allowing it to function with a 1.5g, 2g, 4g, or 6g sensitivity.

GS2	GS1	g-Range	Sensitivity
0	0	1.5g	800 mV/g
0	1	2g	600 mV/g
1	0	4g	300 mV/g
1	1	6g	200 mV/g

Acceleration Profiles:

