


Baccalauréat Sciences et Techniques de l'Industrie et du Développement Durable	
CI12 - Organisation structurelle et solutions constructives des chaînes d'information	MAINTIEN EN ÉQUILIBRE
O4 – Décoder l'organisation, fonctionnelle, structurelle et, logicielle d'un système	

Triple Axis Accelerometer MMA7361 SKU:DFR0143

From Robot Wiki

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Triple Axis Accelerometer MMA7361

Introduction

The MMA7361 from Freescale is a very nice sensor with easy analog interface. The MMA7361 is a 3.3V part and outputs an analog voltage for each of the three outputs. This voltage is in ratio to the measured acceleration and to the supply voltage (ratiometric). It has selectable sensitivity by dip switch. You will need some extra hardware to convert this analog signal to a usable digital one. The Arduino is really good option for it. This break board is especially designed for Arduino which has 3 JST connector that can be easily plug into our IO/Sensor expansion board

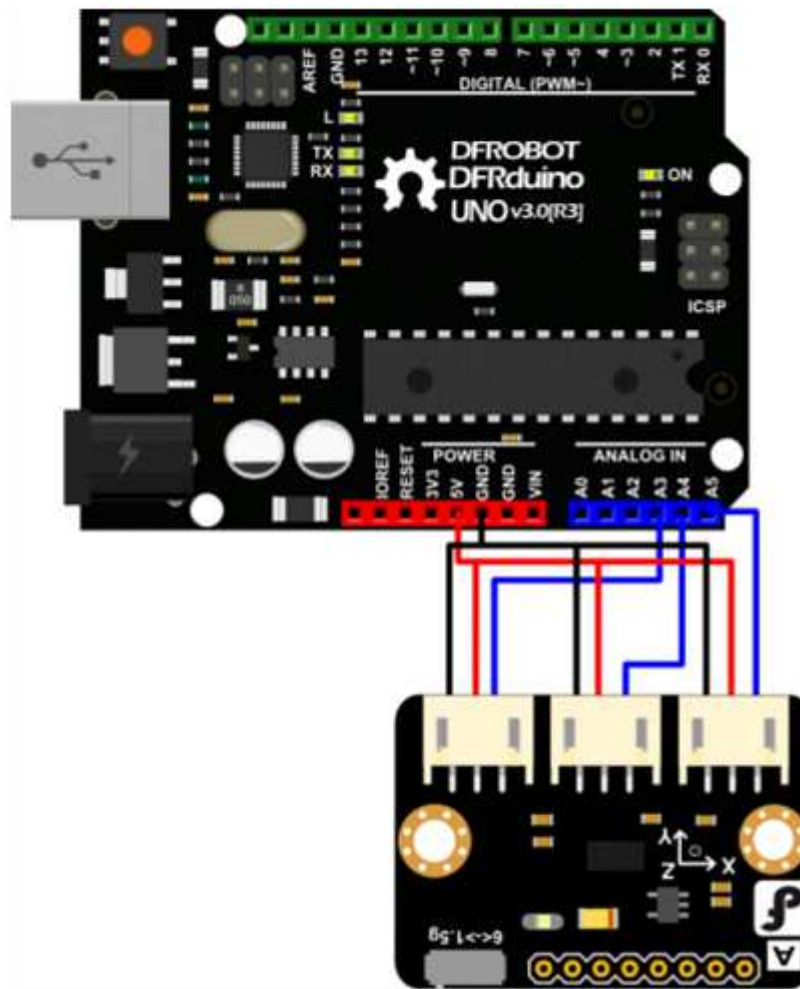
Applications

- Measure the acceleration information for your robot or other devices
- Using for slope alarm or other kinds of alarm such as shock

Specification

- Voltage: 3.3-8V
- Selectable sensitivity: $\pm 1.5g/6g$
- Low power: $500\mu A$ @ measurement mode, $3\mu A$ @ standby ;
- High sensitivity: $800 mV/g$ @ $1.5g$;
- Interface: Analog Output
- Low pass filter
- Size: $37 \times 26mm$

Connection Diagram



Triple Axis Accelerometer MMA7361 diagram