Joystick Module
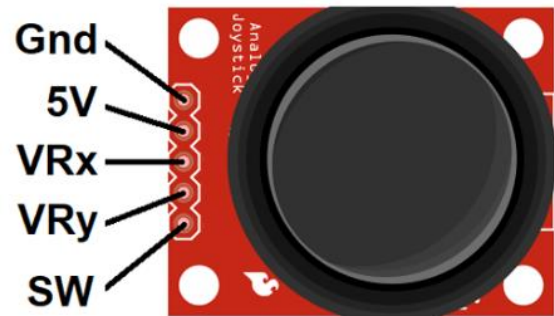
| Joystick Module | Joystick Pinout |

Pin configuration

| Pin No.	Pin Name	Description
1	Gnd	Ground terminal of Module
2	+5v	Positive supply terminal of Module
3	VRx	Voltage Proportional to X axis
4	VRy	Voltage Proportional to Y axis
5	SW	Switch

Features

- Two independent Potentiometer: one for each axis (X and Y)
- Auto return to center position
- Low weight
- Cup-type Knob
- Compatible to interface with Arduino or with most microcontrollers

Technical Specifications

- Operating Voltage: 5V
- Internal Potentiometer value: 10k
- 2.54mm pin interface leads
- Dimensions: 1.57 in x 1.02 in x 1.26 in (4.0 cm x 2.6 cm x 3.2 cm)
- Operating temperature: 0 to 70 °C

Internal Structure

The below image is the **internal diagram of the Joystick Module**. It consists of two Potentiometers, each for one axis (X and Y). Both 10k potentiometer are independent to move in their particular direction. SW (Switch) pin is internally connected to a push button.
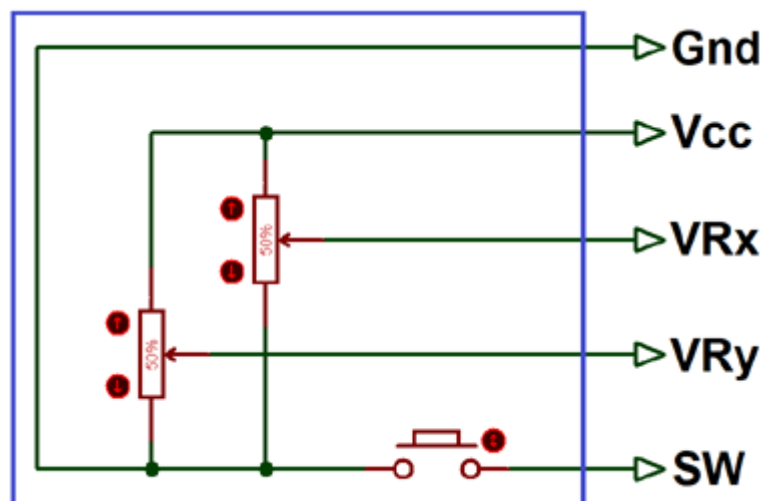
Application

- Camera Pan/Tilt Control
- Game Input/Control
- Robot Control
- Analog Input of Parameters
- Widely use in DIY projects