

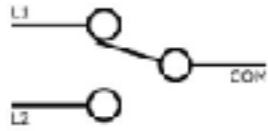
Sensors, Microcontrollers and Actuators

Sensor overview

Actuator overview

Wireless/Wired

Passive sensors (1)



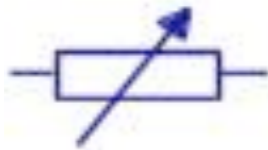
Switch

On/Off



FSR (Force sensing Resistor)

Force



Potentiometer

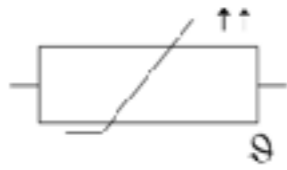
Rotation



Lin. transducer

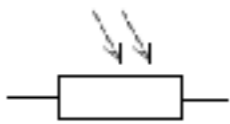
Displacement

Passive sensors (2)



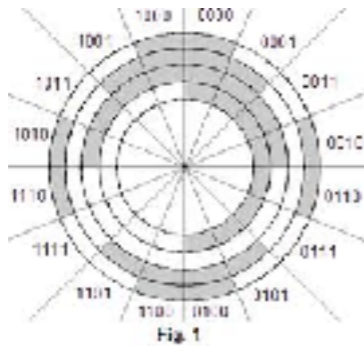
NTC / PTC (Negative /Positive temp coefficient)

Temperature



LDR (Light depended resistor)

Light



Graycode sensor

Rotation/position



IR diode

IR light



Capacitive sensors

level (liquid)

Passive sensors (3)



Lin Pos Sensor

(finger) position



Piezo

Sound/pressure



Piezo

Movement



speaker

Movement



microphone

Sound

Active sensors (1)



Accelerometer (x,y)

x, y movement, rotation



Compass

Northpole



Gyroscope

Rotation, compass



Hall sensor

Magnetic field



Polaroid sensor

Distance

Active sensors (2)



Ultrasonic sensor

Distance



IR motion sensor

Motion



Smoke detector

Smoke



video camera

movement/color/location



IR distance measurement

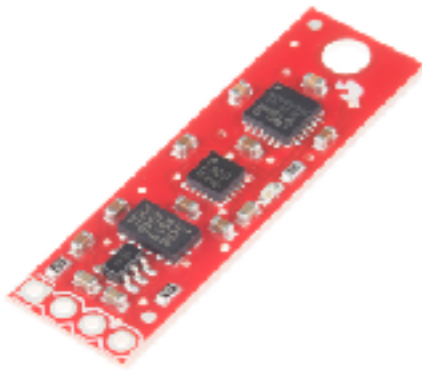
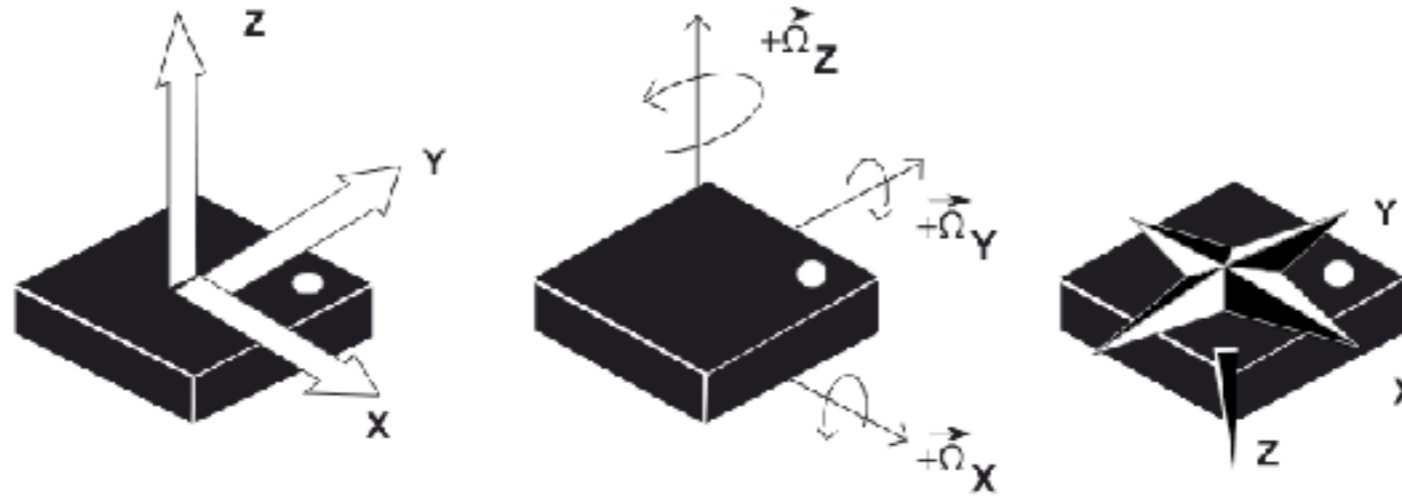
Distance



Kinect

Movement/position

Active sensors (3)



9 degrees of freedom (9dof)