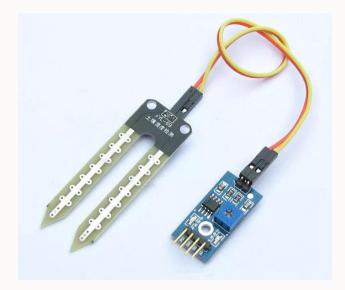


- Detect obstacles less or more than 50 cm.
- Detect upward or down stairs.
- Detect exist of water or light.
- Tracking system.
- Warn the user from danger of fall







Water Sensor



Vibratory motor



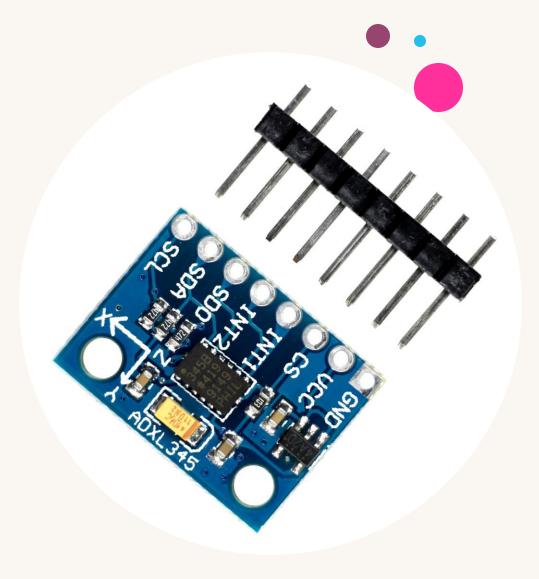
Ultrasonic Sensor



LDR (light detector sensor)

ADXL335 Accelerometer

This module is used to sense stick movement in three dimensions X, Y and Z, it can measure static gravitational acceleration, in the project it is installed where the Y axis, so the acceleration in Y equal +10 It expresses the force exerted in this axis which equals 1G (single G force equivalent to the gravitational acceleration 9.8 m/s2) ,when the stick tilts this value will drop so that it indicates that the stick slides, and a message of "Beware of falling" is activated



Tracking System

GSM Shield

- is a miniature cellular module which allows for GPRS transmission, sending and receiving SMS and making and receiving voice calls.
- We send message (where) to track the stick ,GSM replied with message contain latitude and longitude.

