



Part Number: SEN0019

Description: Gravity: Digital Adjustable Infrared Proximity Sensor

## INTRODUCTION

This is an [Arduino](#) infrared [distance sensor](#). It has an adjustable detection range, 3cm - 80cm. It is small, easy to use, assemble, and inexpensive.

Useful for [robotics](#), interactive media, industrial assembly line, etc. Infrared wave length is part of the Sun's natural light spectrum. While is a nice fit for indoor projects, outdoors with plenty of sun light and reflective surfaces on it's sight is not advised. It's incredibly repurposable and can be used for a lot of different projects. The adjustable screw on it's back makes it very convenient for different purposes. After digital read shows on your [Arduino](#) pin and then you are ready to go. It is a great sensor choice for quick [prototyping](#).

Use it on a [robot](#) for wall detection and wall follower, or as some of the [projects](#) listed below as a trigger system. It's round shape with the screwable holders make it a good choice for a home made assembled robot, with a hole of it's diameter and the holders you can place it aiming at different positions on a robot. Or even place it near your PC to turn on and off your monitor.

To ease the difficulty, a [Gravity](#) Interface is adapted to allow plug&play. The [IO expansion shield](#) is the best match for this [sound sensor](#) connecting to your [Arduino](#).



## ***SPECIFICATION***

- Power supply: 5V
- Current: 100mA
- Range: 3 - 80cm adjustable
- **Red: +5V**; Yellow: Signal; **Green: GND**
- Dimension: 45 x 18 x 18 mm (1.8 x 0.7 x 0.7 in)