

Gravity: Digital Adjustable Infrared Proximity Sensor

SKU:SEN0239



INTRODUCTION

This is an <u>Arduino</u> digital infrared <u>distance sensor</u>. It has an adjustable detection range, 0cm - 200cm. It is small, easy to use, assemble, and inexpensive.

Useful for <u>robotics</u>, 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 the 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. Digital read on your Arduino pin and you are ready to go. Good sensor choice for quick prototyping.

Use it on a <u>robot</u> for wall detection and wall follower, or as some of the projects listed below as a trigger system. It's round shape with the screw 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 difficult of using this sensor, a Gravity Interface is adapted to allow plug & play. The <u>IO</u> expansion shield is the best match for this sound sensor connecting to your Arduino.



SPECIFICATION

• Output Form: PNP normally open

• Signal Type: Digital signal

• Operating Voltage: 3~5V

• Interface: XH2.54-3Pin

• Detection range: 0~200 cm

• Switch Level: 0, No obstacles in the area; 1, There are obstacles in the area.

• Operating Temperature: -15~60 °C

• Temperature Effect: Within -15 °C to + 60 °C, the detection distance is below 10% at + 25 °C

• Storage Temperature: -25~75 °C

• Humidity: 35% ~ 95% RH

• Size: 75 * Φ18 mm