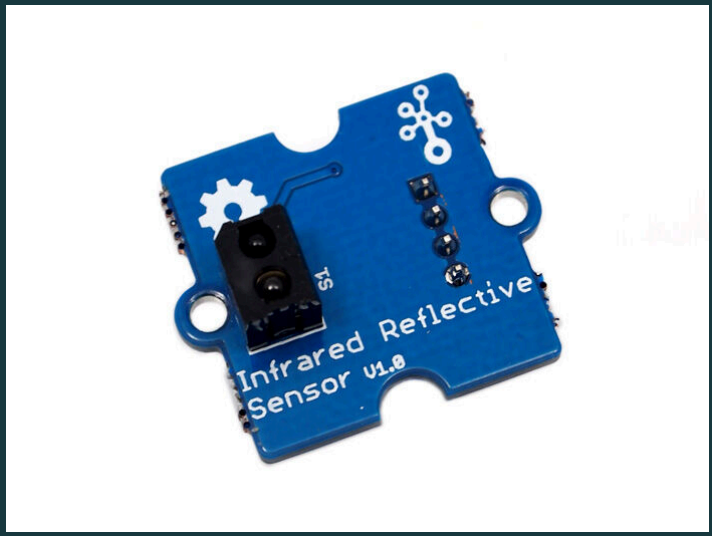
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INDUSTRIAL PRODUCT DATASHEET

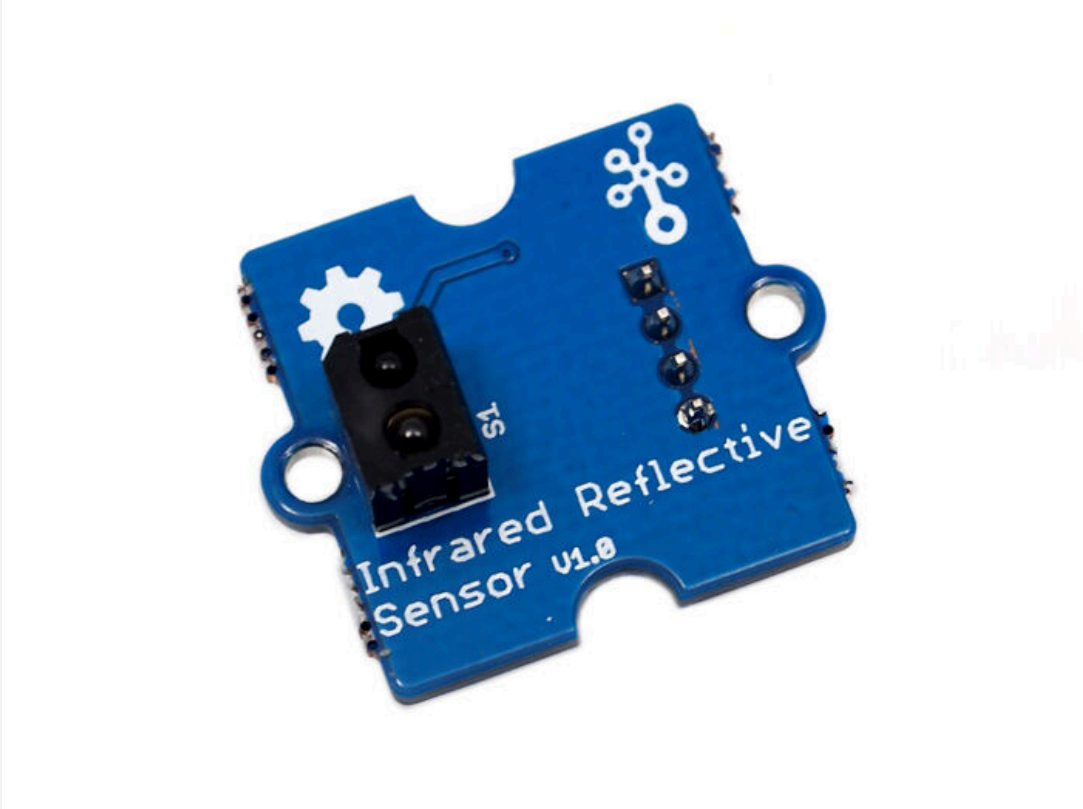
Grove - Infrared Reflective Sensor

The Grove - Infrared Reflective Sensor (retired) uses an RPR220 reflective photosensor to detect color and distance, providing digital output for applications like line-following and rotary speed detection.

SKU	UPDATED	PRICE
101020029	2024-08-09 02:11:41	$4.90(Excl. VAT)



Overview



The Grove - Infrared Reflective Sensor is a retired product; consider the Grove - Infrared Reflective Sensor V1.2 as an alternative. Utilizing an RPR220 reflective photosensor, it detects color and distance based on infrared reflectivity, offering digital output, adjustable sensitivity, and an indicator LED for applications such as line-following and rotary speed detection.

Key Features

This product is retired, please consider the new version **Grove - Infrared Reflective Sensor V1.2** as your alternative choice.

The reflectivity of infrared light varies with the color and distance of the reflecting surface. According to this principle, Grove - Infrared Reflective Sensor utilizes a RPR220 reflective photosensor module to detect color and distance. When a light-colored object approaches,the signal intensity received by infrared reflective sensor increases and the indicator LED on board turns red. When a dark-colored object approaches, the intensity decreases and the LED turns off.

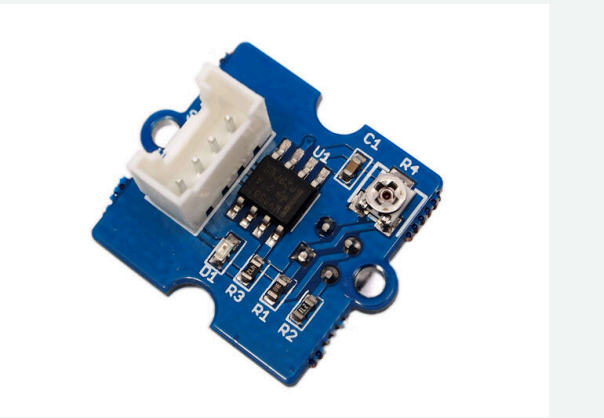
This sensor is a basic and widely used part in applications such as line-following cars, rotary speed detection, auto data logging on utility meters or other situations where color or distance contrast is sharp.

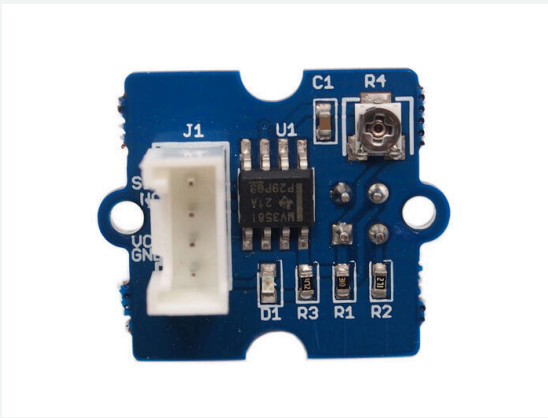
Features

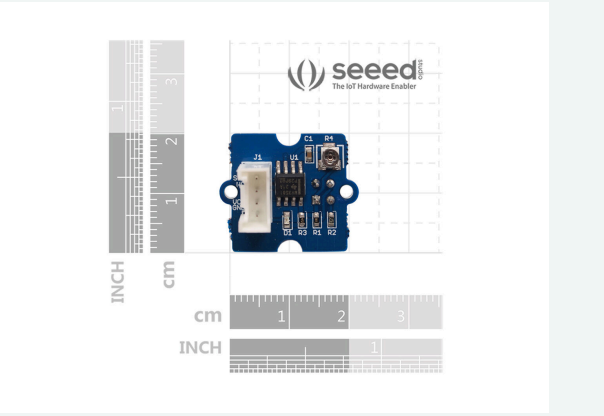
- Operating voltage: 3.3 V - 5 V
- Digital output, 0 or VCC
- High resolution sensor;minimum detectable length: 1mm black line
- Effective distance：4-15mm
- Indicator LED on board
- Sensitivity adjustable via potentiometer
- Small Grove 1X1 compatible interface

For all Grove users (especially beginners), we provide you guidance PDF documents. Please download and read through **Preface - Getting Started** and **Introduction to Grove** before your using of the product.

Product Gallery







Part List

Grove - Infrared Reflective Sensor	1

Compliance & Logistics

HSCODE	9031900090
ROHS	1

Resource Links

- https://www.seeedstudio.com/Grove-Infrared-Reflective-Sensor-p-1230.html
- Grove-Infrared Reflective Sensor v1.2 Eagle Files
- Arduino Timer1 Library
- RPR220 Datasheet
- Datasheet

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