Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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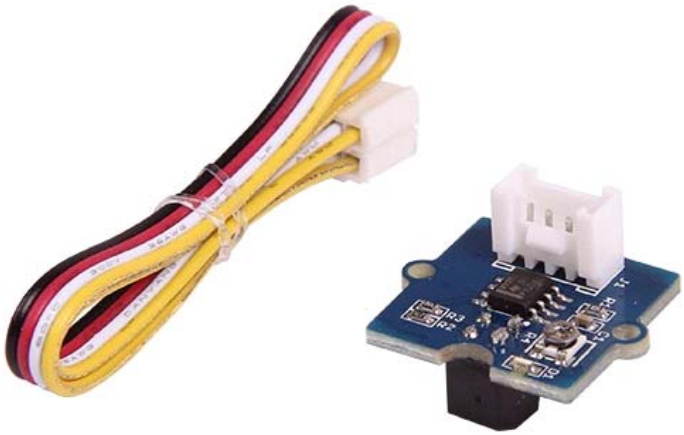
Grove - Infrared Reflective Sensor v1.2

SKU 101020174



Description

Grove - Infrared Reflective Sensor v1.2 can be used for detection of proximity and color of objects. The reflective photosensor - **RPR-220** used in this module consists of an infrared light emitting diode and a high –sensitivity phototransistor. Light-colored objects directly in front of the sensor will reflect more infrared light as well as generate more current in the phototransistor than an object with dark-colored surfaces, this can be tell from a built-in indicator LED which will turn red with sufficient flow of current. Also, the intensity of the reflective light increases as the object getting closer. You can adjust the potential-meter on the back of the board if you want to detect a specific object (eg. Black line) at a certain distance.

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

Features

- Easy to use
- Panel-mounting Grove interface
- Digital output: 0 or VCC
- Built-in indicator LED
- Threshold adjustable via potentiometer
- Power supply: 3.5 – 5.5V DC
- Reflective Photosensor: RPR-220
- Effective working distance: 4-15mm
- Minimum detectable width for monochrome lines: 10mm
- Connector: 4 pin Buckled Grove interface
- Dimension: 20mm*20mm