

## Hall sensor SKU:SEN0185

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### Introduction

What's the best way to detect the magnet? Use another magnet. But it's not sensitive enough. You have to feel it by yourself. Right. This Hall sensor knows whether there is a magnetic object nearby or not. And it correctly tells you through digital output. See below picture for a quick demo!

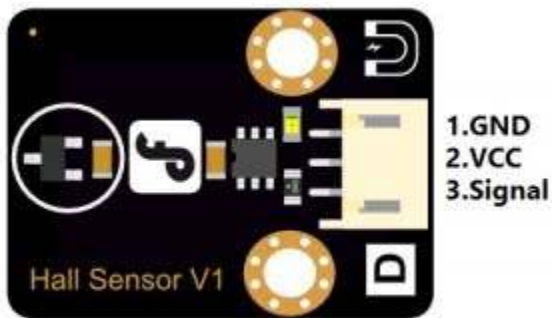
Note: It's an omnipolar magnet detector so that it can not tell two polarities apart.

## Specification

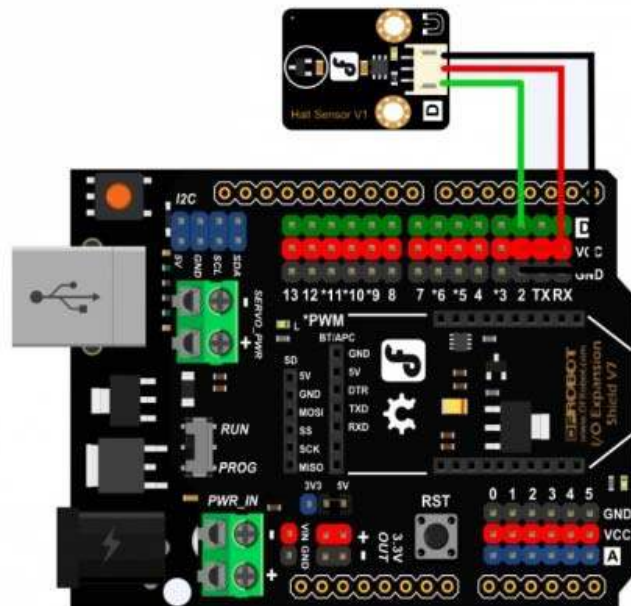
- Supply Voltage: 3.3V to 5V
- Indicator LED on board
- Interface: Digital
- Size:22x30mm

## Pinout

1. GND
2. VCC
3. Signal



## Connection Diagram



## Digital Hall sensor Diagram

## Sample Code

```
int ledPin = 13;           // choose the pin for the LED
int inputPin = 2;         // choose the input pin
int val = 0;              // variable for reading the pin status
void setup() {
  pinMode(ledPin, OUTPUT); // declare LED as output
  pinMode(inputPin, INPUT); // declare pushbutton as input
}
void loop(){
  val = digitalRead(inputPin); // read input value
  if (val == HIGH) {          // check if the input is HIGH
    digitalWrite(ledPin, LOW); // turn LED OFF
  } else {
    digitalWrite(ledPin, HIGH); // turn LED ON
  }
}
}
```