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Hall Magnetic Sensor



Introduction

This is a Magnetic Induction Sensor. It senses the magnetic materials within a detection range up to 3cm. The detection range and the strength of the magnetic field are proportional. The output is digital on/off. This sensor uses the SFE Reed Switch - Magnetic Field Sensor.

Specification

Sensing magnetic materials

Detection range: up to 3cm

Output: digital on/off

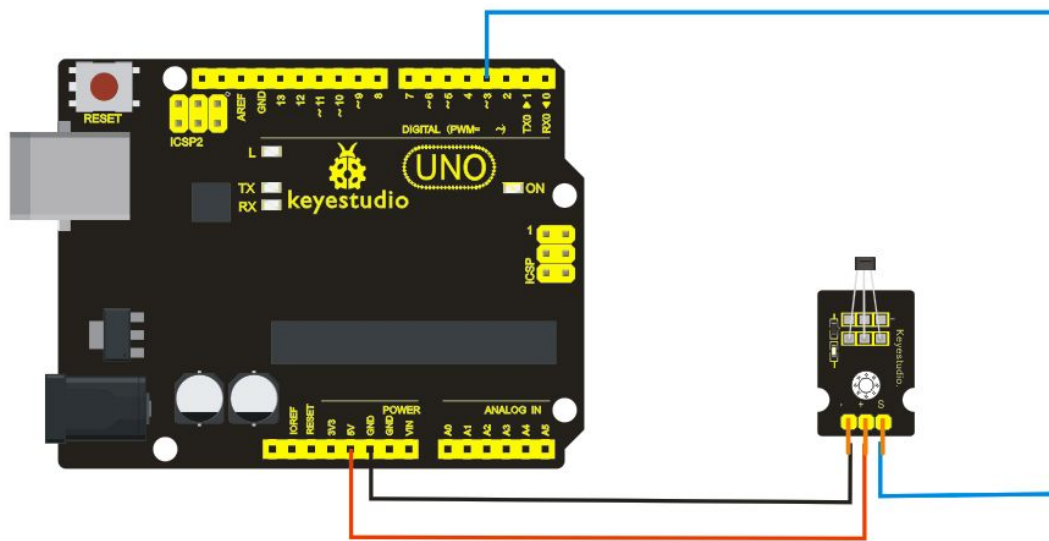
Detection range and magnetic field strength are proportional

Size: 30*20mm

Weight: 3g

Connection Diagram

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Sample Code

```
int ledPin = 13;           // choose the pin for the LED
int inputPin = 3;         // Connect sensor to input pin 3
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
  }
}
```