

Linear Hall Effect Sensor

ARD2-2224

- **Detects magnetic fields**
- **Features everything needed to operate, including an LED**

Description

This sensor is used to detect magnetic fields. The current, and thus the voltage, running through the sensor is changed in relation to the presence of a magnetic field. This sensor is designed so it can tell you the amount the voltage has changed as an analog output, and if the voltage has changed as a digital output. Since the sensor can provide digital and analog outputs, there is a surprising amount you can do with it. You can easily make a working sensor, or make a much more complicated one.

This sensor is built in such a way that the sensor itself has everything needed to operate, including an LED. As such, you can get a basic magnetic switch with nothing more than a 5V battery by connecting the magnet ports to the + and G pins. When a magnet is brought close to the sensor, the voltage will change and send a signal to the sensors integrated LED, telling it to light up.

Specifications

Colour	Red
Material	PCB

Pinout

Module	Arduino	Function
AO	A0	Analog Output
G	GND	Ground Connection
+	5V	Power Supply
DO	D3	Digital Output

