

### Description:

Metal Detectors/Sensors are electronic or electro-mechanical devices used to sense the presence of metal in a variety of situations ranging from packages to people.

Metal Touch sensor will generate certain output on touching metal spike of the sensor. Measured input from Sensor is then fed to the amplifier. Amplifier then sends analog data to the analog output pin of the module.

### Features:

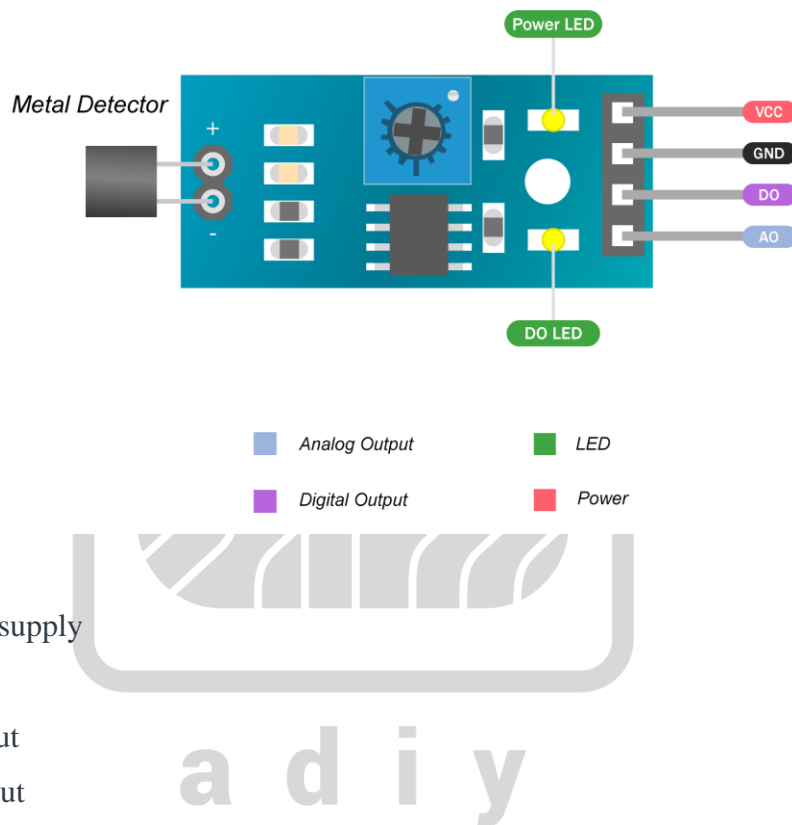
1. Single-channel signal output
2. Adjustable sensitivity
3. Four M2 screws positioning holes for easy installation
4. detects the presence of metal nearby

### Specifications:

- Power supply :- 2V to 5.5V DC
- Output high  $VOH$  :- 0.8VCC
- Output low  $VOL$  :- 0.3VCC
- Output Pin Sink Current (@  $VCC = 3V$ ,  $VOL = 0.6V$ ) – 8mA
- Output pin pull-up current (@  $VCC = 3V$ ,  $VOH = 2.4V$ ) – 4mA

- Response time (low power mode) – 220mS
- Response time (touch mode) – 60mS

### Pin configuration:



### Advantages:

- Cost-effective
- Durable to be used in harsh environments
- Less complex
- Low power consumption

### Applications:

- Used for screening purpose in malls, airports and stations
- Food processing industry

