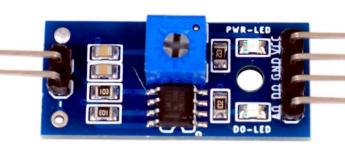


LM393 Comparator Module



Description:

ADIY LM393 amplifier module can be used to compare an input voltage with a predetermined voltage level. ADIY LM393 IC contains 2 op-amps that are completely independent. In LM393 comparator module, only one of the op-amps is used and the other is not connected. The module compares input voltage with the desired voltage level, and produces a digital output. The voltage level can be any value between the module positive and negative supply voltages. This voltage level can be adjusted using the potentiometer on the module.

Specifications and Features:

- 1. Input voltage :- 3.3 to 5V
- 2. Adjustable threshold (via potentiometer)
- 3. Analog and Digital Out
- 4. Power and Signal indicator LED's
- 5. Mounting hole

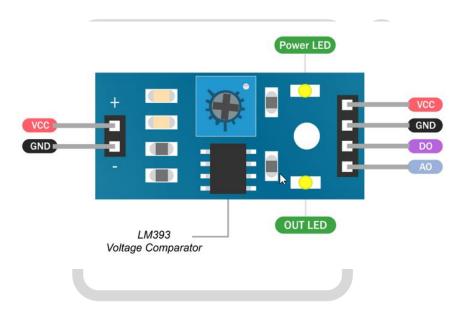


How it works:

Each of the comparators in the LM339 have two inputs marked '+' and '-'. The device simply compares the difference in voltage between these two input pins and sets the digital output accordingly.

- If the '+' input voltage is higher than the '-' voltage, the output goes HIGH.
- If the '-' input voltage is higher than the '+' voltage, the output goes LOW

Connections:



4 Pins at the Right Side:

VCC: Module power supply – 5V

• GND: Ground

• DO: Digital Output

AO: Analog Output

2 Pins at the Left Side:

• IN+: Input positive side

• IN-: Input negative side

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Advantages:

- Soil Moisture Sensor
- LDR Sensor
- Sound Sensor
- Buzzer Module



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