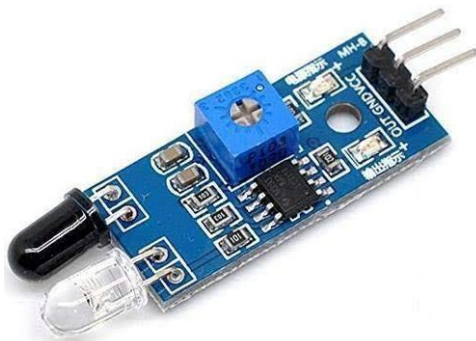


Date	13 October 2022
Team ID	PNT2022TMID49499
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Project Name	Signs with smart connectivity for better road safety
Maximum Marks	

### **Functional Requirements:**

S.No	Requirements
1	IR Sensor
2	IBM Cloud services
3	Create An Account In OpenweatherMap Website
4	Arduino Uno R3
5	Python 3.7.4
6	Respond to sensor readings and send alerts to the user.

### **IR Sensor:**



<b>Model</b>	LM393
<b>Operating Voltage</b>	5VDC
<b>Average Current Consumption</b>	20mA
<b>Distance Measuring Range</b>	100cm-500cm
<b>Output Type</b>	5V

## 2. Arduino UNO R3:



<b>Model</b>	Arduino UNO R3
<b>Operating Voltage</b>	5V
<b>Input Voltage</b>	6-20V
<b>Digital I\O Pins</b>	54
<b>Analog Input Pins</b>	16
<b>Flash Memory</b>	32KB of which 8 KB used by bootloader
<b>SRAM</b>	2KB
<b>EEPROM</b>	4KB
<b>Clock Speed</b>	16MHz
<b>Length</b>	101.52mm
<b>Width</b>	53.4mm
<b>Weight</b>	25 g