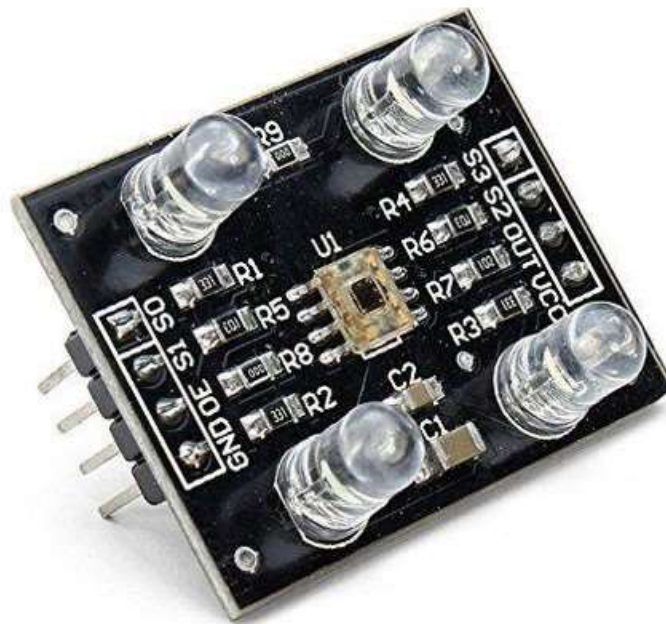


Interfacing of Color Sensor



TCS230 TCS3200 Color Sensor

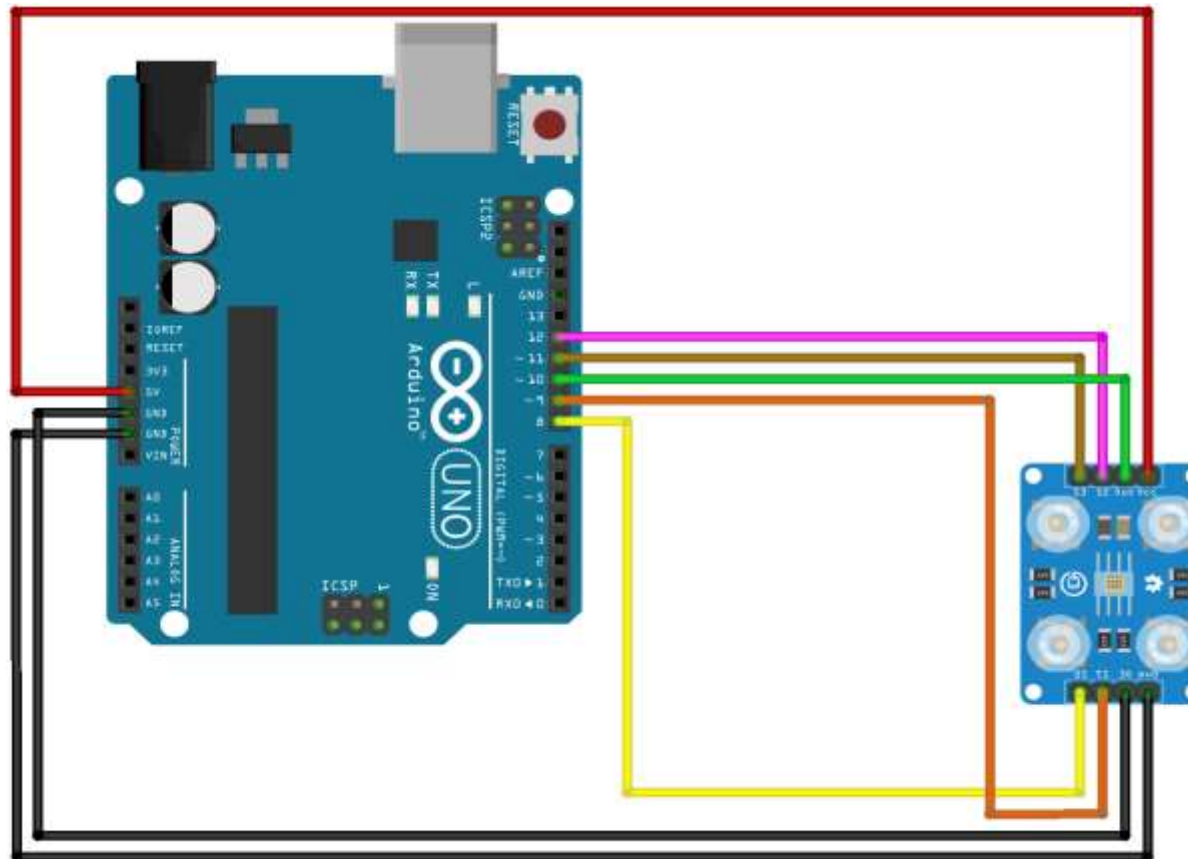
- The TCS230 senses color light with the help of an 8 x 8 array of photodiodes.
- The color sensor detects the color of the surface, usually in the RGB scale. Color is the result of interaction between a light source, an object and an observer.
- In case of reflected light, light falling on an object will be reflected or absorbed depending on surface characteristics, such as reflectance and transmittance.



Components Required

- Arduino UNO
- TCS230 TCS3200 Color Sensor
- Jumper Wires

Connection Diagram



Connections

- Connect **S0** pin of color sensor with pin **8** of Arduino .
- Connect **S1** pin of color sensor with pin **9** of Arduino .
- Connect **OUT** pin of color sensor with pin **10** of Arduino .
- Connect **S2** pin of color sensor with pin **12** of Arduino .
- Connect **S3** pin of color sensor with pin **11** of Arduino .
- Connect **DE & GND** pin of color sensor with **GND** of Arduino .
- Connect **Vcc** pin of color sensor with **+5V** of Arduino .

Project Link :