

Option 1: RGB Color Sensor with IR filter and White LED - TCS34725

Link: <http://www.adafruit.com/products/1334>

Data Sheet: <http://www.adafruit.com/datasheets/TCS34725.pdf>

Cost: \$7.95

Processor requirements: I2C and 1 GPIO for integrated illumination led interrupt

Supply Voltage: Nominal 3 V or 5 V

Supply Current: Typical 235 μ A

Dimensions: 20.44mm / 0.8" x 20.28mm / 0.79"

Weight: 3.23g

Notable:

- 3.3V regulator so you can power the breakout with 3-5VDC safely
- level shifting for the I2C pins so they can be used with 3.3V or 5V logic

Option 2: Flora Color Sensor with White Illumination LED

Link: <http://www.adafruit.com/products/1356>

Data Sheet: <http://www.adafruit.com/datasheets/TCS34725.pdf>

Cost: \$7.95

Processor requirements: I2C and 1 GPIO for integrated illumination led interrupt

Supply Voltage: Nominal 3 V

Supply Current: Typical 235 μ A

Dimensions: 5.25mm / 0.6" x 15.25mm / 0.6" x 2.16mm / 0.08"

Weight: 0.39g

Notable: Sew-able