

GY-31 COLOR Module

SENSOR: TCS3200

COLOR LIGHT-TO-FREQUENCY CONVERTER

FEATURES

High-Resolution Conversion of Light

Intensity to Frequency

Programmable Color and Full-Scale Output

Frequency

Communicates Directly With a Microcontroller

Single-Supply Operation (2.7 V to 5.5 V)

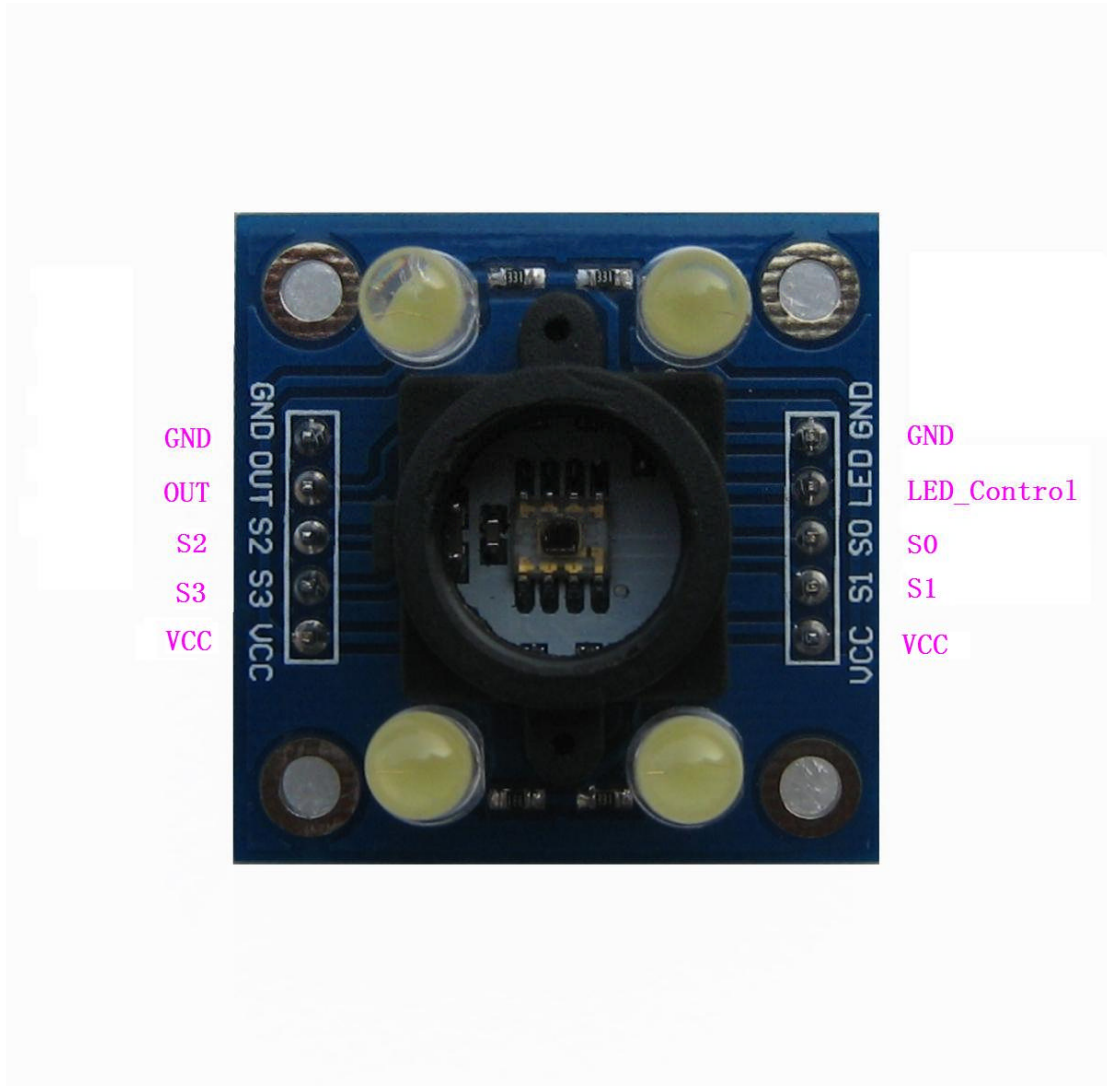
Power Down Feature

Nonlinearity Error Typically 0.2% at 50 kHz

Stable 200 ppm/°C Temperature Coefficient

Low-Profile Lead (Pb) Free and RoHS

Compliant Surface-Mount Package



Pin Function Descriptions

Pin	Pinname	Description
1	GND	Power supply ground.
2	OUT	Output frequency
3	S2	Photodiode type selection inputs.
4	S3	Photodiode type selection inputs.
5	VCC	Supply Voltage. 2.7-5v
6	VCC	Supply Voltage. 2.7-5v

7	S1	Output frequency scaling selection inputs.
8	S0	Output frequency scaling selection inputs.
9	LED	LED CONTROL 1: LED ON , 0: LED OFF
10	GND	Power supply ground.

Table:

name	Description
Operating Voltage Range	2.7~5 V
Supply Current	5V LED ON 25mA
interfaces	Output frequency
Operating Temperatu	-40° ~ 85°
Dimension	33.2mm×33.2mm×25mm