

OKY3250

Product Name:GY-2561 TSL2561 Luminosity Sensor Infrared Light Sensor sensor Module

Product Module: OKY3250

Description:

The TSL2561 Luminosity Sensor Breakout is a sophisticated light sensor which has a flat response across most of the visible spectrum. Unlike simpler sensors, the TSL2561 measures both infrared and visible light to better approximate the response of the human eye. And because the TSL2561 is an integrating sensor (it soaks up light for a predetermined amount of time), it is capable of measuring both small and large amounts of light by changing the integration time.

The TSL2561 is capable of direct I2C communication and is able to conduct specific light ranges from 0.1 - 40k+ Lux easily. Additionally, the TSL2561 contains two integrating analog-to-digital converters (ADC) that integrate currents from two photodiodes, simultaneously. Each breakout requires a supply voltage of 3V and a low supply current max of 0.6mA

Features:

I2C interfaces

Power supply:3.3v ~ 5v

a low supply current max of 0.6mA

Selectable detection modes

High resolution 16-Bit digital output at 400 kHz I2C Fast-Mode

Wide dynamic range: 0.1 – 40,000 LUX

Wide operating temperature range: -40°C to 85°C

Programmable interrupt function with User-Defined Upper and lower threshold settings

Package Contents:

1 x 1 x TSL2561 Luminosity Sensor Module GY-2561

