



Grove - Digital Light Sensor

SKU 101020030

This module is based on the I2C light-to-digital converter TSL2561 to transform light intensity to a digital signal. Different from traditional analog light sensor, as Grove - Light Sensor, this digital module features a selectable light spectrum range due to its dual light sensitive diodes: infrared and full spectrum.

You can switch between three detection modes to take your readings. They are infrared mode, full spectrum and human visible mode. When running under the human visible mode, this sensor will give you readings just close to your eye feelings.

Features

- 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

Application Ideas

- Ambient light sensing
- Backlighting control for display panel
- Keyboard illumination control

For all Grove users (especially beginners), we provide you guidance PDF documents. Please download and read through Preface - Getting Started and Introduction to Grove before your using of the product.

Technical details

| | |
|------------------------------|-------------------|
| Dimensions | 24mm x20mm x9.8mm |
| Weight | G.W 8g |
| Battery | Exclude |
| Dynamic range: | 0.1 - 40,000 LUX |
| Operating temperature range: | -40°C to 85°C |

Part List

| | |
|------------------------------|---|
| Grove - Digital Light Sensor | 1 |
|------------------------------|---|

ECCN/HTS

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|--------|------------|
| ECCN | EAR99 |
| HSCODE | 9027900000 |
| ROHS | 1 |

