seeed studio

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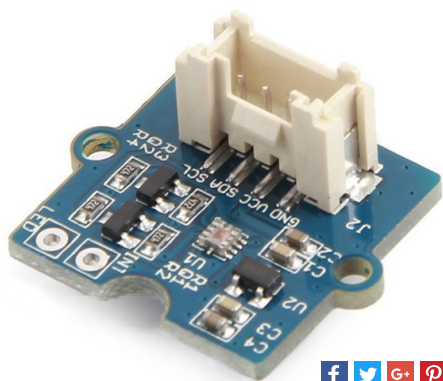Bazaar / Grove / Sensor for Grove / Grove - Sunlight Sensor

Grove - Sunlight Sensor
SKU 101020089

- Wide spectrum detection range
- 3.3V and 5V dual mode
- Detect sunlight directly
- I2C Interface
- Grove connector compatible

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Description

Summer is coming, want to make a UV detector to know the UV index when you are under the sun? Grove - Sunlight Sensor is recommend here.

Grove - Sunlight Sensor is a multi-channel digital light sensor, which has the ability to detect UV-light, visible light and infrared light.

This device is based on SI1145, a new sensor from SiLabs. The Si1145 is a low-power, reflectance-based, infrared proximity, UV index and ambient light sensor with I2C digital interface and programmable-event interrupt output. This device offers excellent performance under a wide dynamic range and a variety of light sources including direct sunlight.
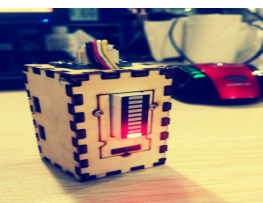
Grove - Sunlight Sensor include an on-bard Grove connector, which help you to connect it your Arduino easily. You can use this device for making some project which need to detect the light, such as a simple UV detector.

FEATURES

Digital light sensor

Wide spectrum detection range

Programmable configuration

3.3/5V Supply

Detect sunlight directly

Grove compatible

See More ⌄

Recipes

DIY a Carry-on UV Detector

Questions and Answers

Have a question about this? Ask people who own it.

Documents

Wiki ⚡

Lumen (unit) ⚡

Spectrum ⚡

Schematic in PDF ⚡

Schematic in Eagle File ⚡

Si1145 datasheet ⚡

Ultraviolet index ⚡

Github Repositoriy for Grove - Sunlight ...

Recommendations

Grove - Moisture Sensor

Grove - Air quality sensor v1.3

Base Shield V2

Grove - Temperature&Humidity...

Grove - PIR Motion Sensor

Grove - Water Sensor

GrovePi+

Grove - Temperature&Humidity...

Grove - Dust Sensor

can I hookup, 2-3 together on the same seeedstudio V4.2 with expansion board and still get IR, Vis, UV reading out to the ide?

pseudopaul on Dec 14,2016

Reply |
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Hello, yes you can.

You need a software I2C because you can't connect 3 modules in one I2C bus.

About software I2C please refer to https://github.com/loovee/Arduino_SoftI2C

Thanks.

Loovee

ae on Dec 15,2016 10:05 AM

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Hi does grove support any sd card data logging together with grove sunlight and RTC?
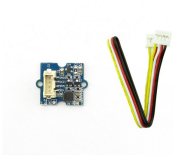
devil-king1996 on May 01,2017 02:41 AM

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0

Hello! kindly tell me how much maximum lux that we can measure using this sensor module?
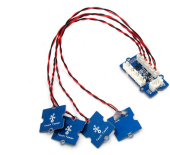
13234011 on Nov 30,2016

Reply |
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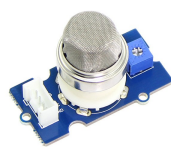
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View History

Grove - 3-Axis Digital Gyro

Grove - I2C Touch Sensor

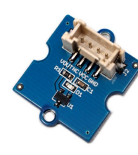**Grove - Gas Sensor(MQ2)**

Grove - Gas Sensor(MQ5)

Grove - Hall Sensor

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ADD TO CART

Grove - Universal 4 Pin Buckled 50cm...

Grove - Luminance Sensor

Grove - Relay

Grove - Digital Light Sensor

Grove - 4 pin Female Jumper to Grove...

Grove - Temperature & Humidity...

Grove - UV Sensor

Grove - Loudness Sensor

Grove - Gas Sensor(MQ2)

Grove - I2C Hub

Grove - Ultrasonic Ranger

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