SparkFun RGB and Gesture Sensor - APDS-9960

SEN-12787 ROHS

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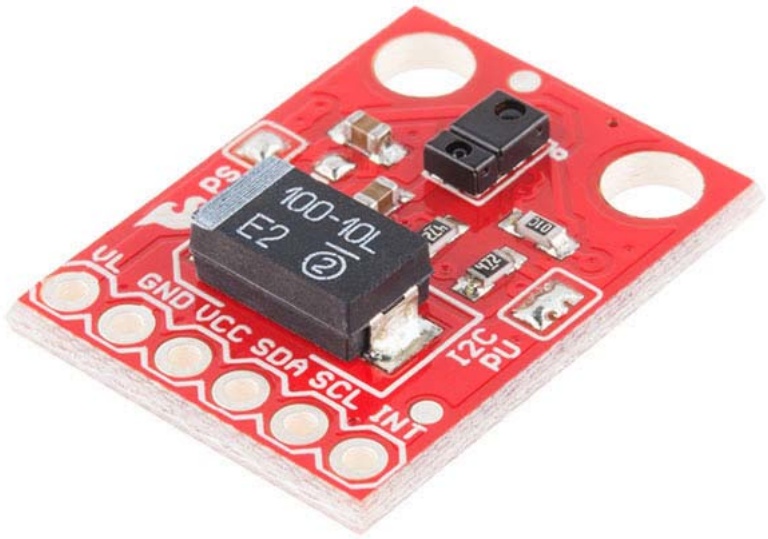

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SparkFun RGB and Gesture Sensor - APDS-9960
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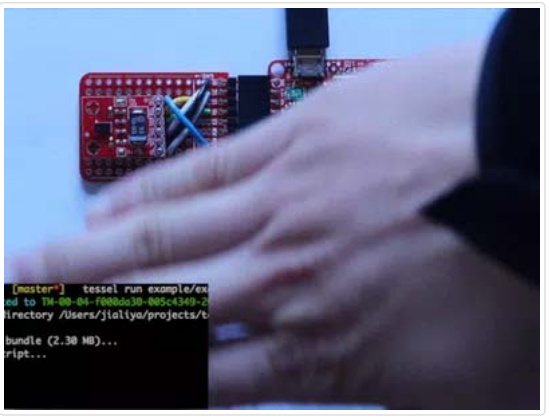

apds-gesture

by Kelsey Breseman

Description: This is the SparkFun RGB and Gesture Sensor, a small breakout board with a built in APDS-9960 sensor that offers ambient light and color measuring, proximity detection, and touchless gesture sensing. With this RGB and Gesture Sensor you will be able to control a computer, microcontroller, robot, and more with a simple swipe of your hand! This is, in fact, the same sensor that the Samsung Galaxy S5 uses and is probably one of the best gesture sensors on the market for the price.

The APDS-9960 is a serious little piece of hardware with built in UV and IR blocking filters, four separate diodes sensitive to different directions, and an I^2C compatible interface. For your convenience we have broken out the following pins: VL (optional power to IR LED), GND (Ground), VCC (power to APDS-9960 sensor), SDA (I^2C data), SCL (I^2C clock), and INT (interrupt). Each APDS-9960 also has a detection range of 4 to 8 inches (10 to 20 cm).

SparkFun RGB and Gesture Sensor

SparkFun Simple Sketch - RGB and Gesture Sensor

Features:

- Operational Voltage: 3.3V
- Ambient Light & RGB Color Sensing
- Proximity Sensing
- Gesture Detection
- Operating Range: 4-8in (10-20cm)
- I^2C Interface (I^2C Address: 0x39)

Documents:

- Schematic
- Eagle Files
- Hookup Guide
- Datasheet (APDS-9960)
- GitHub (Design Files & Example Code)
- GitHub (Library)
- Product Video

Recommended Products

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SPARKFUN RECOMMENDED
SparkFun Logic Level Converter - Bi-Directional
BOB-12009
$2.95
★★★★½ 62

SPARKFUN RECOMMENDED
PIR Motion Sensor (JST)
SEN-13285
$9.95
★★½☆☆ 12

SPARKFUN RECOMMENDED
ZX Distance and Gesture Sensor
SEN-12780
$24.95

SPARKFUN RECOMMENDED
SparkFun Ambient Light Sensor Breakout - TEMT6000
BOB-08688
$4.95

★★★★½ 3

★★★★½ 3

COMMENTS 164 | REVIEWS ★★★½☆ 3 | TUTORIALS 1

Customer Reviews

★★★½☆ 3.3 out of 5

Based on 3 ratings:

5 star	1
4 star	1
3 star	0
2 star	0
1 star	1

0 of **1** found this helpful:

★★★★☆ BE Careful!

about 8 months ago by DelBOy ✔ verified purchaser

First I would like to say that these sensors are awesome, they can do soo much and they are very easy to use. But just as a warning, be very careful with them. if you are prototyping and have things wired up with a header and jumpers, if you are waving your hands around the sensor and you manage to knock the ground wire off of the sensor, it will never sense again :(

While working on a final Project for my embedded systems class this past semester, my partner and I found this out it a very hard way, the weekend before our project was due. luckily SparkFun and their Awesome!!! order fulfillment team were able to get an order for two more of them placed on Saturday ready for a 10am local pickup on Monday (the same Monday the project was due). you guys rock! these Sensors are AWESOME!!!

★★★★★ Nice sensor!

about 2 months ago by Member #812561 ✔ verified purchaser

works very well with a raspberry pi. Sometimes the far and near gestures are a bit hard to achieve.

★☆☆☆☆ Could do without the interrogation

about a month ago by Member #847121 ✔ verified purchaser

Did not like being interrogated what I was going to use this for ‘and respond in a full sentence’ before I could purchase this. Apparently it is NOT export restricted and I was asked due to a ‘glitch in the system’, I was told when I followed up on what that was about. Anyway. Not impressed. Can’t help wondering why I was really asked.

> Shay W. replied on December 2, 2016:
>
> I am sorry you had this issue while ordering from us. This problem has been corrected and won’t happen again. Thank you for the feedback!