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Arduino library for reading data from APDS-9930 ambient light and proximity sensors.

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Depau ...
on 30 Sep 2019


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☰ README.md

APDS9930 Ambient Light and Proximity sensor

This is a fork of the [library from Sparkfun for the APDS-9960 sensor](#). It has been adapted to read values from this other model.

[Quick-start guide available here](#)

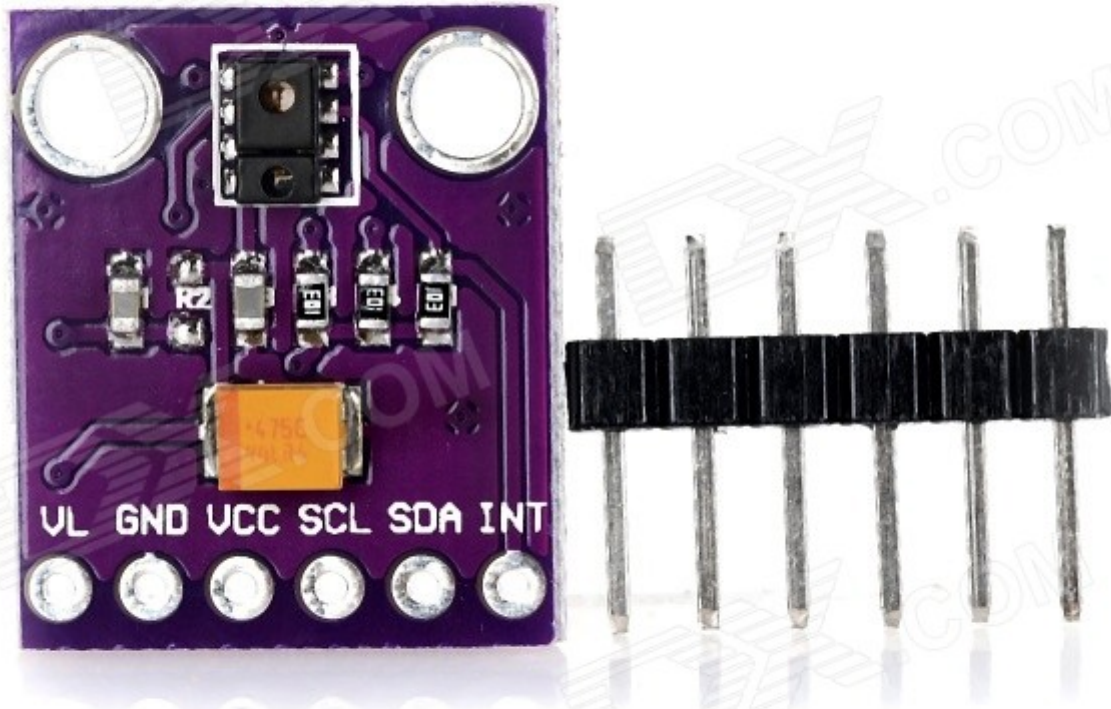
[Purchase an Avago APDS-9930 Breakout Board here](#)

DO NOT EMAIL ME IF YOU HAVE AN ISSUE

It will be deleted without reading. If you have an issue, [create an issue](#) here on GitHub.

Unmaintained

I'm not going to maintain this library any more. I will merge pull requests, though. Contributions are welcome. Just don't expect anything from me.



Note: even though it says APDS-9960, it's an APDS-9930. That's how I ended up getting one of those. I wanted the RGB sensor. I found this crap in my mailbox. But I decided to write a library for it anyways ;)

Getting Started

- Download the Git repository as a ZIP ("Download ZIP" button)
- Unzip
- Copy the entire library directory (APDS-9930) to <Arduino installation directory>/libraries
- Open the Arduino program
- Select File -> Examples -> APDS9930 -> GestureTest
- Plug in your Arduino and APDS-9930 with the following connections

-OR-

- Use the library manager

Arduino Pin	APDS-9930 Board	Function
3.3V	VCC	Power
GND	GND	Ground
A4	SDA	I ² C Data
A5	SCL	I ² C Clock
2	INT	Interrupt

P.S.: you already know you can't use this purple little thing with your 5V Arduino without a level shifter, right? :) In case you don't have a level shifter, you can detach the microcontroller from an Arduino Uno, reconnect the oscillator pins, the RX and TX pins, the reset and the LED/SCK pins back to the board with some jumper wires. You can then power the microcontroller from a 3.3V source (the 3V3 output on the board should work) and connect the sensor directly to the MCU. Look up "Arduino on Breadboard".

- Go to Tools -> Board and select your Arduino board
- Go to Tools -> Serial Port and select the COM port of your Arduino board
- Click "Upload"
- Go to Tools -> Serial Monitor
- Ensure the baud rate is set at 9600 baud
- Swipe your hand over the sensor in various directions!

Repository Contents

- `/examples` - Example sketches for the library (.ino). Run these from the Arduino IDE.
- `/extras` - Additional documentation for the user. These files are ignored by the IDE.
- `/src` - Source files for the library (.cpp, .h).
- `keywords.txt` - Keywords from this library that will be highlighted in the Arduino IDE.
- `library.properties` - General library properties for the Arduino package manager.

Documentation

- [Quickstart Guide](#) - Basic hookup guide for the sensor.
- [Product Repository](#) - Main repository (including hardware files) for the APDS9930 ambient light and proximity sensor.

- [Installing an Arduino Library Guide](#) - Basic information on how to install an Arduino library.

Version History

- master - Adapted for use with APDS-9930
- [V_1.4.0](#) - Updated to new library structure
- V_1.3.0 - Implemented disableProximitySensor(). Thanks to jmg5150 for catching that!
- V_1.2.0 - Added pinMode line to GestureTest demo to fix interrupt bug with some Arduinos
- V_1.1.0 - Updated GestureTest demo to not freeze with fast swipes
- V_1.0.0: Initial release
- Ambient and RGB light sensing implemented
- Ambient light interrupts working
- Proximity sensing implemented
- Proximity interrupts working

License Information

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- Your friends at SparkFun. And Davide Depau :*

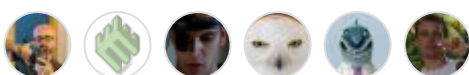
Releases

No releases published

Packages

No packages published

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Languages

● C++ 100.0%