



LilyPad Light Sensor

DEV-08464 ROHS ✓

DESCRIPTION

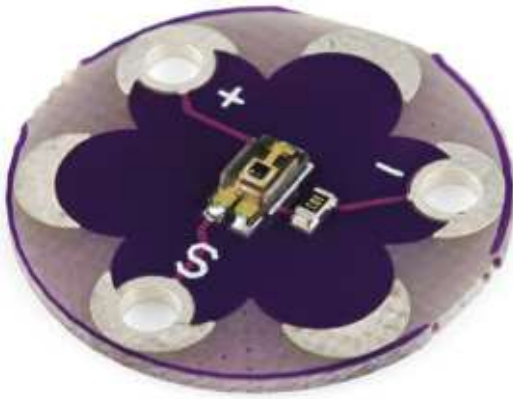
FEATURES

DOCUMENTS

- 20mm outer diameter
- Thin 0.8mm PCB

Tags

LILYPAD



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LilyPad Light Sensor Product Help and Resources

TUTORIALS

VIDEOS

SUPPORT TIPS

SKILLS NEEDED



Cackling Apple Head Witch

OCTOBER 30, 2014

Make your own cackling apple head witch to scare all of the trick or treaters this Halloween!



LilyPad Light Sensor Hookup Guide

NOVEMBER 19, 2015

How to hook up the LilyPad Light Sensor as well as some project ideas and example code.



LilyPad Safety Scarf

NOVEMBER 21, 2017

This scarf is embedded with a ribbon of LEDs that illuminate when it gets dark out, making yourself more visible to vehicle and other pedestrians.

COMMENTS 15

REVIEWS 0

Customer Comments

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 **mudskipper** / about 7 years ago / ★ 3

This may be a kinda dumb question (I'm new to this!)... is there a sensor that does the opposite? I mean, a sensor that increases power to (say, an LED or 4) when available light decreases?

I'm looking to create a motion detection system using lilypad in a quilt. I want the whole thing to fire up when someone walks by it (as it hangs on the wall) so they are surprised by the effect.



ebird97 / about 6 years ago / ★ 2

Yes, connect one lead of a 10k ohm resistor to +V, connect other lead of resistor to one lead of a photocell, then connect last lead of the photocell to GND. The output will be where the lead of the resistor touches the lead of the photocell. As photocell detects less light, the output increases.



Member #24502 / about 4 years ago / ★ 2

Does this need to be driven at 5V or can it be driven by 3.3V?



Member #410356 / about 4 years ago / ★ 1

I guess if you were doing a stationary project you could stick this thing onto a cheap night light with its own sensor, and black out everything around your mcguyvered rig so when the night light came on in the dark, the light triggered this thing on.



532nmIsMyFavoriteColor / about 5 years ago / ★ 1

Does this need a battery to work, or is this like a solar panel, creating the power?



Kamiquasi / about 5 years ago / ★ 1

It is very much like a solar panel (one could argue it *is* a solar panel, albeit a very very very very very tiny one with slightly different characteristics). You wouldn't really use it to power anything, but it's great as a sensor.



532nmIsMyFavoriteColor / about 5 years ago / ★ 1

OK, so I would use this with a battery, and more of a switch to turn something on when it is exposed to light... Like the mini photocell, it just works different?



Kamiquasi / about 5 years ago / ★ 1

Yep. I figured the sensor used was the TEMENT6000, and it is, so if you google for e.g. 'arduino temt6000', you'll find tons of examples. If you're not going to use an arduino (or any other microcontroller platform, since they're mostly the same in approach), look for circuits that use a "phototransistor", which is what this technically is :)



Member #365337 / about 5 years ago / ★ 1

OK. If it measures intensity, then does a formula exist for converting from voltage to lux?



a1ronzo / about 5 years ago / ★ 1

You probably want to check out the [datasheet for the sensor](#). Figure1 gives you the relationship between collector current and lux.



Member #365337 / about 5 years ago / ★ 1

Do you have a conversion formula from voltage to nanometers?



MikeGrusin / about 5 years ago / ★ 1

This sensor measures intensity, not wavelength.



JopieK / about 7 years ago / ★ 1

I added support of this part to the Fritzing custom library. You can download it at the Fritzing code site:

<http://code.google.com/p/fritzing/issues/detail?id=875>

Enjoy!



JopieK / about 7 years ago / ★ 1

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<http://code.google.com/p/fritzing/issues/detail?id=875>



JeffG / about 7 years ago / ★ 1

The link to the sensor sheet appears to be incorrect. It is the same as the product sticker sheet. Thanks.

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