

Octopus Analog Photocell Brick

Introduction

What is a photocell? Photocells are sensors that allow you to detect light. They are small, inexpensive, low-power, easy to use and don't wear out. For that reason they often appear in toys, gadgets and appliances. They are often referred to as CdS cells (they are made of Cadmium-Sulfide), light-dependent resistors (LDR), and photoresistors.

Photocells are basically a resistor that changes its resistive value (in ohms Ω) depending on how much light is shining onto the squiggly face. They are very low cost, easy to get in many sizes and specifications, but are very inaccurate. Each photocell sensor will act a little differently than the other, even if they are from the same batch. The variations can be really large, 50% or higher! For this reason, they shouldn't be used to try to determine precise light levels in lux or millicandela. Instead, you can expect to only be able to determine basic light changes

For most light-sensitive applications like "is it light or dark out", "is there something in front of the sensor (that would block light)", "is there something interrupting a laser beam" (break-beam sensors), or "which of multiple sensors has the most light hitting it", photocells can be a good choice!

The Frearduino Sensor Shield is the perfect shield to connect this sensor to Arduino. Or Frearduino UNO which we had pre-stray Octopus Brick interface.

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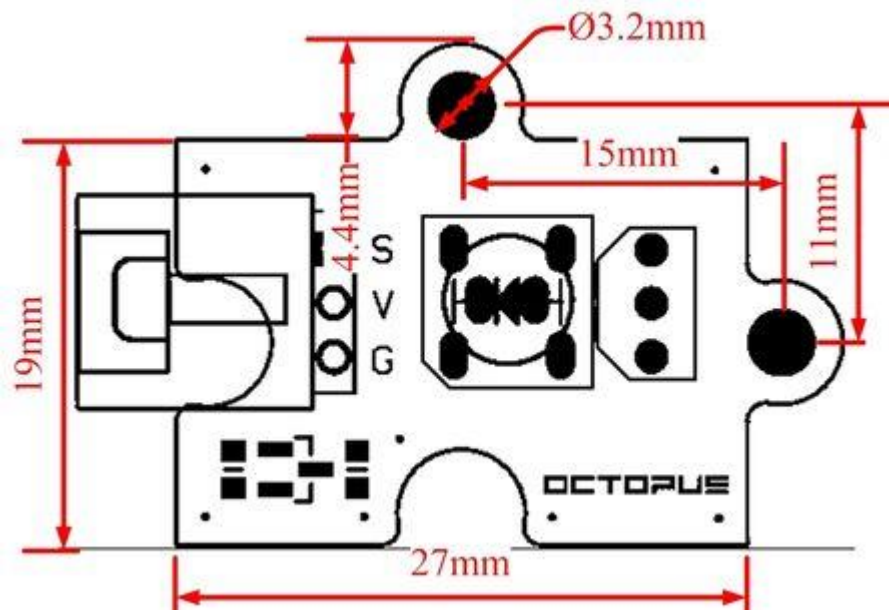
Feature

- Power supply: 3.3v or 5v
- 3P buckled wires connector
- Easy to 'plug and play
- Able to achieve very interesting and an interactive work
- Size: 19mm x 27mm

Pin definition and Rating

GND	VCC	Signal
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Mechanic Dimensions



Usage

- 3P buckled wires connector

Programming

Includes important code snippet. Demo code like :

```
<syntaxhighlight lang="php">
```

```
void setup(){
```

```
    Serial.begin(57600);
```

```
}
```

```
void loop(){
```

```
    Serial.print("Photocell Value:");  
    Serial.println(analogRead(0));  
    delay(100);
```

```
}
```

```
</syntaxhighlight>
```

Version Tracker

Revision	Descriptions	Release
v1.0b	Initial public release	date

Bug Tracker

Bug Tracker is the place you can publish any bugs you think you might have found during use. Please write down what you have to say, your answers will help us improve our products.

Resources

- [Schematic](#)