

# Octopus 5mm LED Brick

## Introduction

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By using Octopus electronic bricks, you may connect Arduino/Freduino compatible boards easily with various digital, analog and I2C/Uart interfaces. These the breadboard-less firm connection are prepared to extensive modules like potentiometers, sensors, relays, servos...even buttons, just plug and play.

TOctopus Piranha LED light Brick, and special sensors Arduino board and ambient light sensor extension combination, can be used in the interaction with the light works.

When the LED light module connected to Arduino, the digital pin (LOW on, HIGH off) is used to control it. The brightness of LED can be controller via PWM output.

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

There are five colors LEDs for you choosing. White(default), Red, Blue, Green, Yellow.

## Feature

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- Power supply: 3.3v or 5v
- 3P buckled wires connector
- Easy to 'plug and play
- Five colors of LED for you choosing. White(default), Red, Blue, Green, Yellow.
- Able to achieve very interesting and an interactive work
- Size: 19mm x 27mm

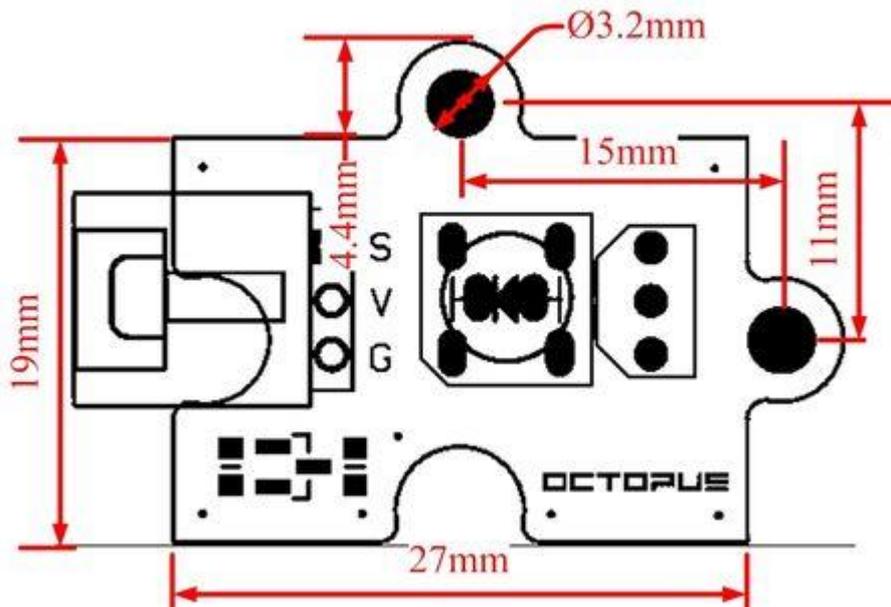
## Pin definition and Rating

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GND	VCC	Signal
GND	VCC	Signal

## Mechanic Dimensions

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## Usage

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- 3P buckled wires connector

### Programming

Includes important code snippet. Demo code like :

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

```
int ledPin = 13; // choose the pin for the LED
int inputPin = 14; // Connect sensor to input pin 3
```

```
void setup() {
```

```
    pinMode(ledPin, OUTPUT); // declare LED as output
    pinMode(inputPin, INPUT); // declare pushbutton as input
```

```
}
```

```
void loop(){
```

```
    val = digitalRead(inputPin); // read input value
    if (val == HIGH) { // check if the input is HIGH
        digitalWrite(ledPin, LOW); // turn LED OFF
    } else {
        digitalWrite(ledPin, HIGH); // turn LED ON
```

```
}
```

```
}
```

```
</syntaxhighlight>
```

## Version Tracker

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Revision	Descriptions	Release
v1.0b	Initial public release	date

## Bug Tracker

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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

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- [Schematic](#)