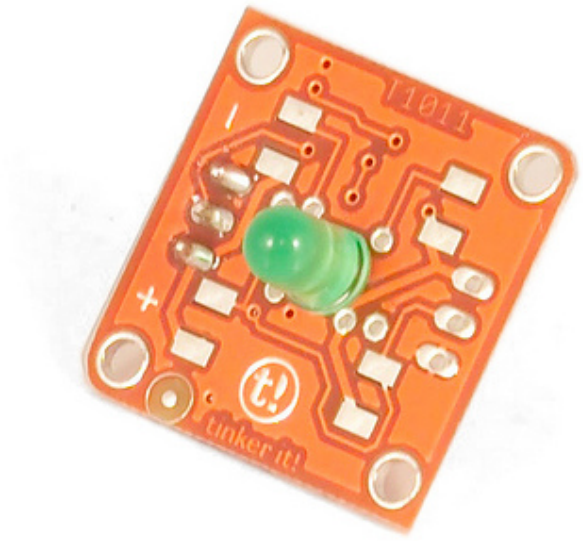
TinkerKit Green Led [5mm]



Overview

The **LED** is possibly the simplest actuator available. It's a low power light source available in many colors. It lights up when powered from an Arduino pin.

Input: Arduino provides a maximum of 40 mA per pin; this is enough to light up the LED through the **digitalWrite()** and **analogWrite()** functions.

Module description: this module features a 5mm Green Light Emitting Diode, the standard TinkerKit 3pin connector and a green LED that signals that the module is correctly powered and a tiny yellow LED that shows the current brightness of the main green LED. A resistor provides the optimal amount of current when connected to an Arduino.

This module is an **ACTUATOR** therefore the connector is an INPUT that need to be connected to one of the **OUTPUT** connectors on the **TinkerKit Shield**.

Code Example

```
/*
based on Blink, Arduino's "Hello World!"
Turns on an LED on for one second, then off for one second, repeatedly.
The Tinkerkit Led Modules (T010110-7) is hooked up on O0


This example code is in the public domain.
*/

#define O0 11
#define O1 10
#define O2 9
#define O3 6
#define O4 5
#define O5 3
#define I0 A0
#define I1 A1
#define I2 A2
#define I3 A3
#define I4 A4
#define I5 A5


void setup() {
// initialize the digital pin as an output.
// Pin 13 has an LED connected on most Arduino boards:
pinMode(O0, OUTPUT);
}

void loop() {
digitalWrite(O0, HIGH); // set the LED on
delay(1000); // wait for a second
digitalWrite(O0, LOW); // set the LED off
delay(1000); // wait for a second
}
```

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