

SKU:DFR0785 (<https://www.dfrobot.com/product-2363.html>)

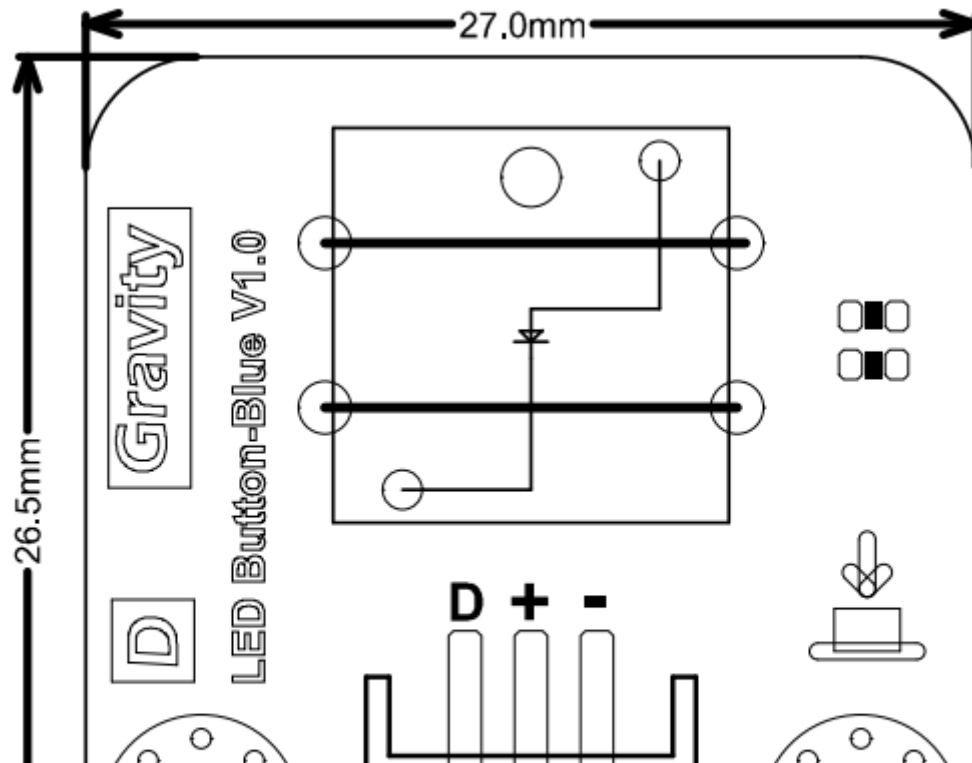
(<https://www.dfrobot.com/product-2363.html>)

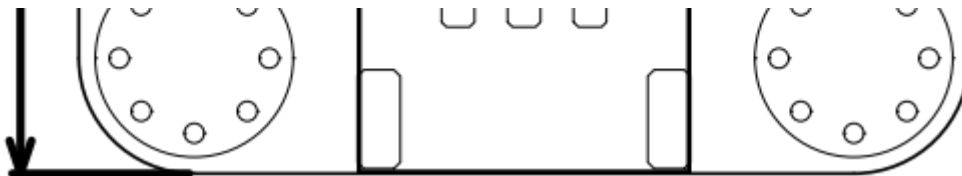
Introduction

This is a simple LED-illuminated switch button with a transparent cap. It's just like a basic switch button, but it lights up color(red/yellow/green/blue/white) when pressed down, which gives you visual feedback. These little buttons can be used with micro:bit to realize various fun interactive projects! Note: When pressed down, the module output high, and the LED lights up.



Specification





- Operating Voltage: +3.3-5V (3.3V is recommended)
- Output: digital
- Connector: PH2.0-3P
- Dimension: 27×26.5mm
- LED Colors Available: red, yellow, green, blue, white

Note: If pressed, this module will output high level and light LED up. If released, it will output low level and light LED out.

Board Overview

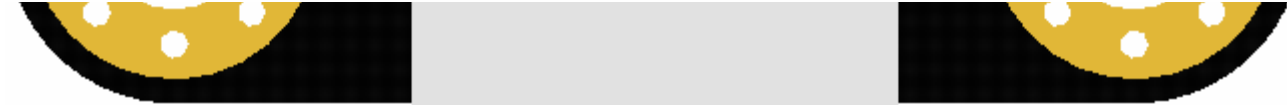


Gravity

D

D + -

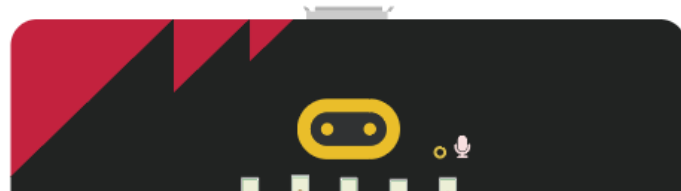


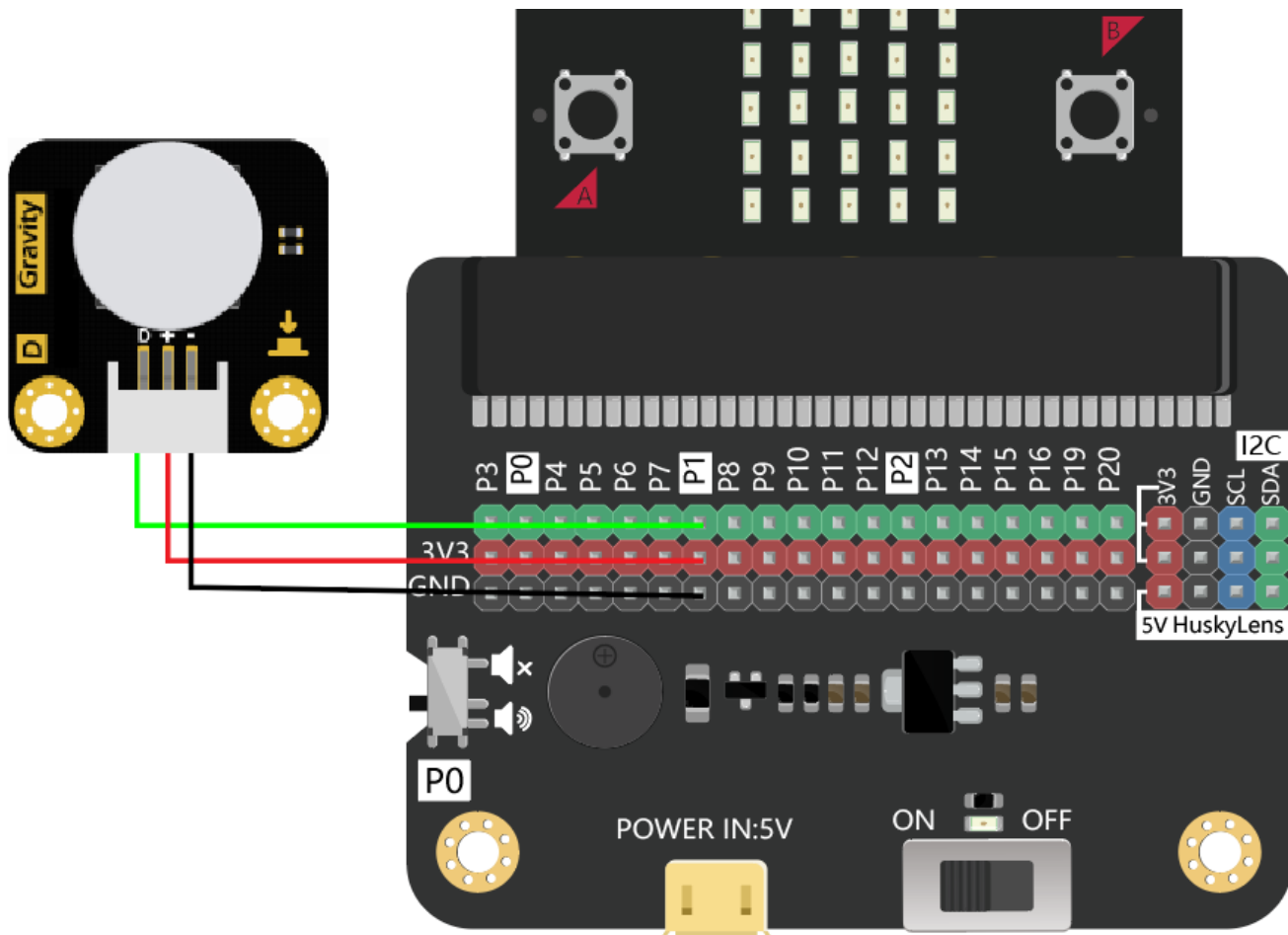


Num	Silk-screen	Description
1	D	Control port
2	+	VCC
3	-	GND

Graphic Programming Tutorial

Connection Diagram





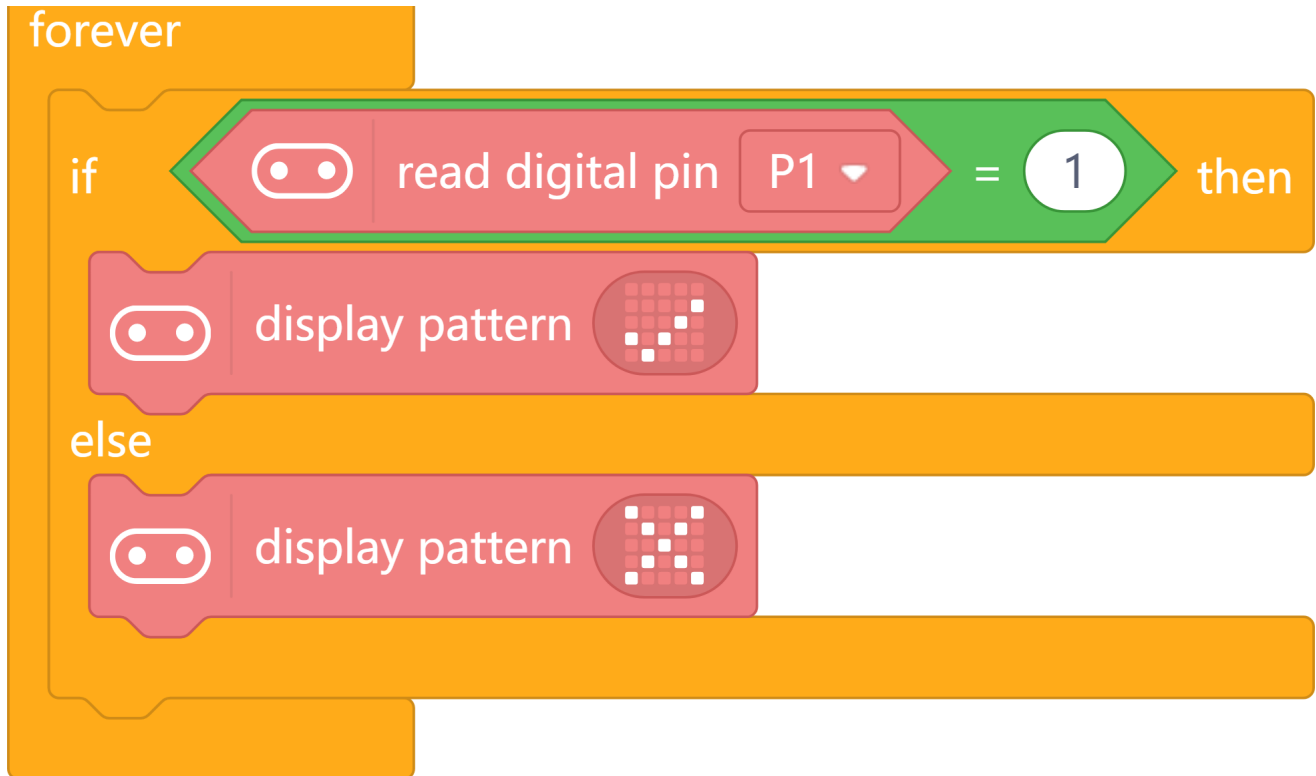
Mind+ Graphic Programming

1. Download and install the software. Download address: <http://mindplus.cc/en.html>
(<http://mindplus.cc/en.html>) Detailed tutorial:
2. Switch to "upload mode". Detailed tutorial:
3. In "expansion", select "Arduino Uno" in "main controller". Detailed tutorial:

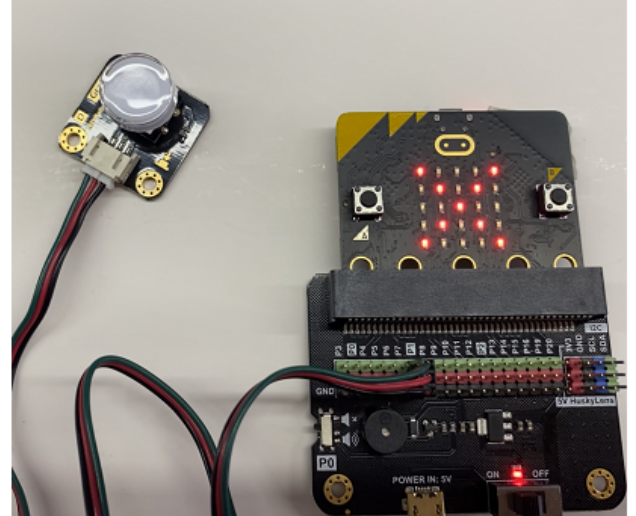
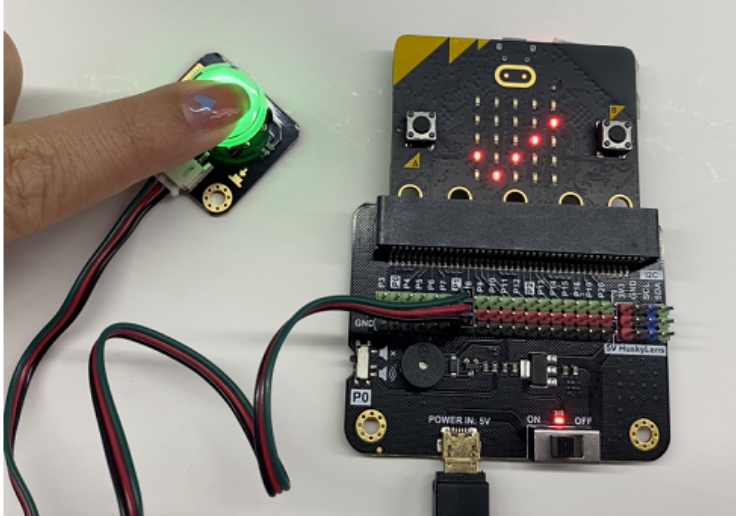
Sample Programm

Function Description: When you first press the button, the LED on it will be lighten up, and the micro:bit dot matrix screen will display "√". When released, the LED will be off, and the screen will display "×".





Program Effect:



MakeCode Graphic Programming

Click link to Basic operation tutorial for MakeCode (<https://wiki.dfrobot.com/Makecode%20Get-started%20Tutorial>).

Sample Program

Function Description: When you first press the button, the LED on it will be lightened up, and the micro:bit dot matrix screen will display "√". When released, the LED will be off, and the screen will display "×".

forever

if

digital read pin P1 ▼

= ▼

1

then

show icon



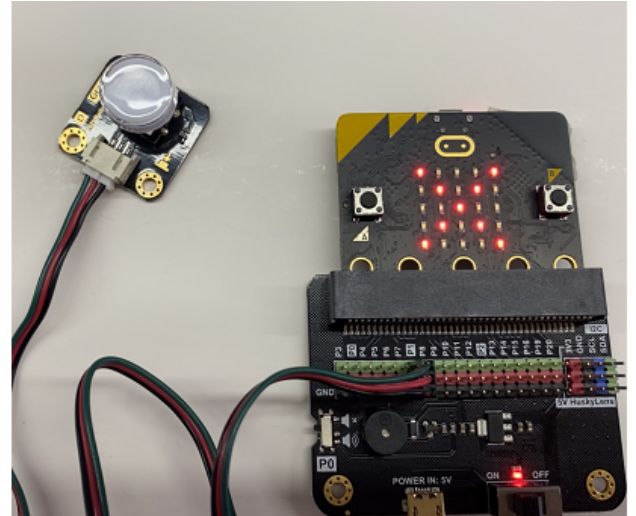
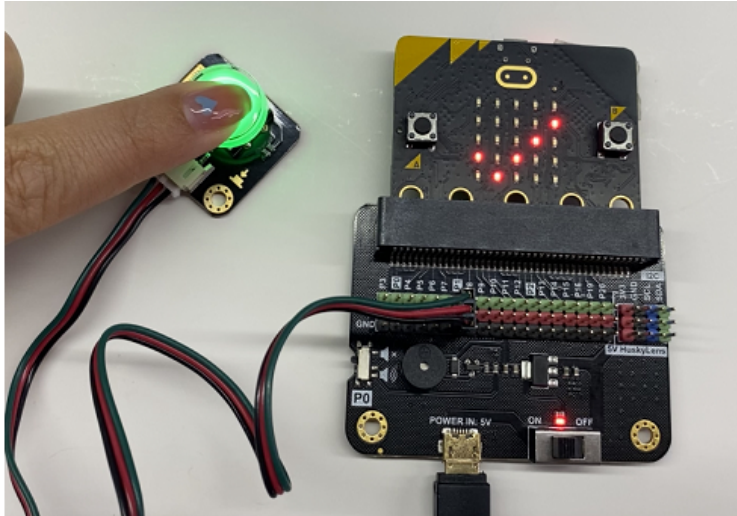
else



show icon

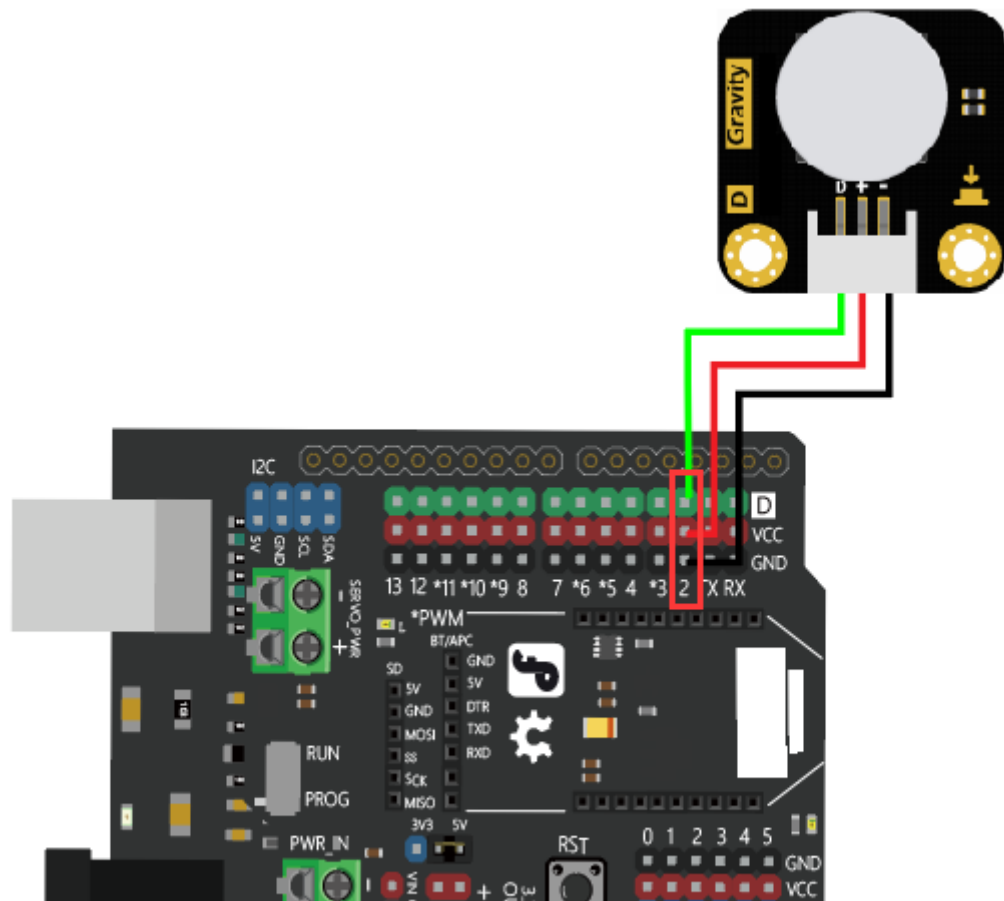


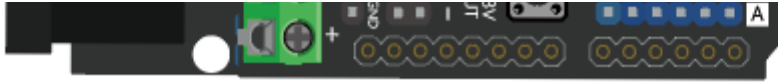
Program Effect:



Tutorial for Arduino

Connection Diagram





Requirments

- **Hardware**
 - Arduino UNO × 1
 - LED Switch Module × 1
 - Digital Cable × 1
- **Software**
 - Arduino IDE (<https://www.arduino.cc/en/Main/Software>)

Sample Code

```

/*
  Description:
  When you press the button for the first time, its inner LED will be lighten up. At t
  When you press the button again, its inner LED will be off, and the other one on pin

*/

int ledPin = 13;           // Select the pin of light
int inputPin = 2;          // Sensor connect pin 2

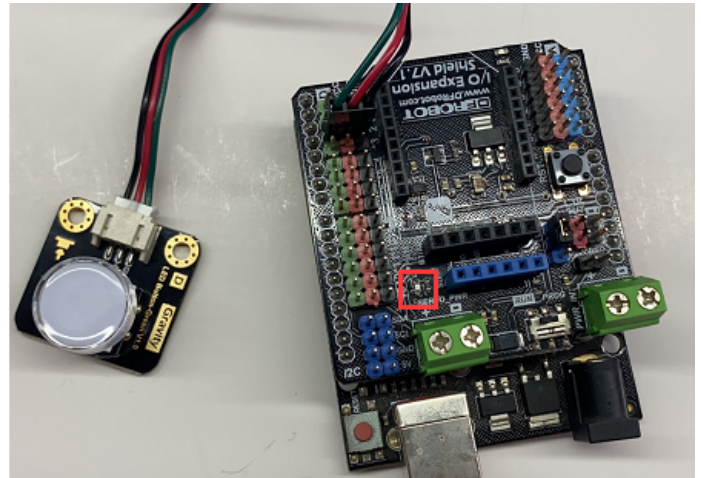
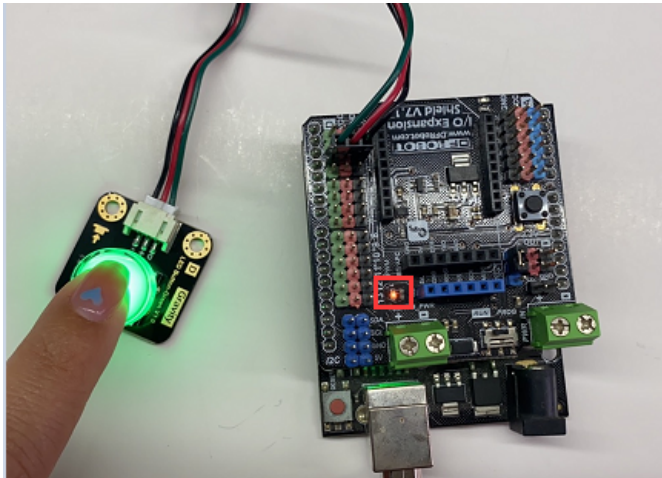
void setup() {
  pinMode(ledPin, OUTPUT);  // Define the pin of light as output pin
  pinMode(inputPin, INPUT); // Define the pin of button as input pin
}

void loop(){
  int val = digitalRead(inputPin); //Read input value

```

```
int val = digitalRead(inputPin); //Read input value
if (val == HIGH) {                // Check if the input is high, high means the button is pressed
    digitalWrite(ledPin, HIGH); // LED light is on
} else {
    digitalWrite(ledPin, LOW);  // LED light is off
}
}
```


Program Effect:



FAQ

For any questions, advice or cool ideas to share, please visit the **DFRobot Forum** (<https://www.dfrobot.com/forum/>).

More Documents

 Get **LED Button** (<https://www.dfrobot.com/product-203.html>) from DFRobot Store or **DFRobot Distributor**. (<https://www.dfrobot.com/index.php?route=information/distributorslogo>)

Turn to the Top