

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

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## Introduction

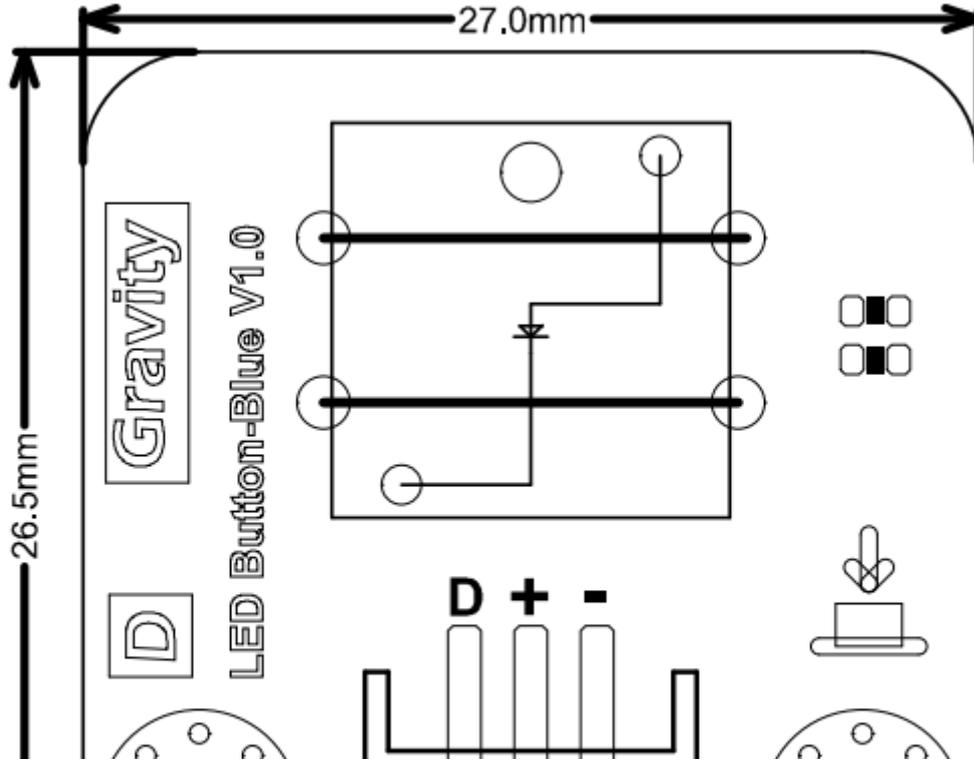
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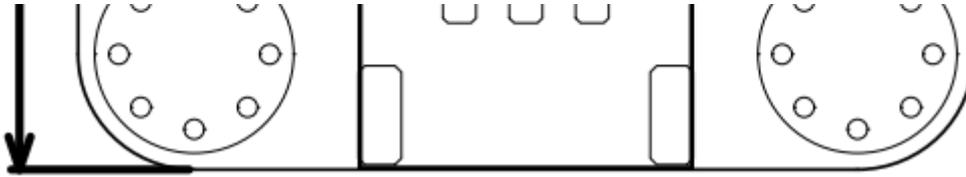
This is a simple LED-illuminated switch button with a transparent cap. It's just like a basic switch button, but it lights up color (red/yellow/green/blue/white) when pressed down, which gives you visual feedback. These little buttons can be used with micro:bit to realize various fun interactive projects!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



# Specification

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- 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

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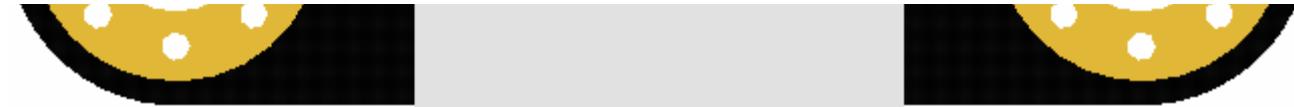


**Gravity**

**D**

**D + -**



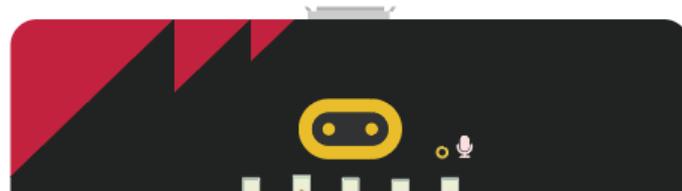


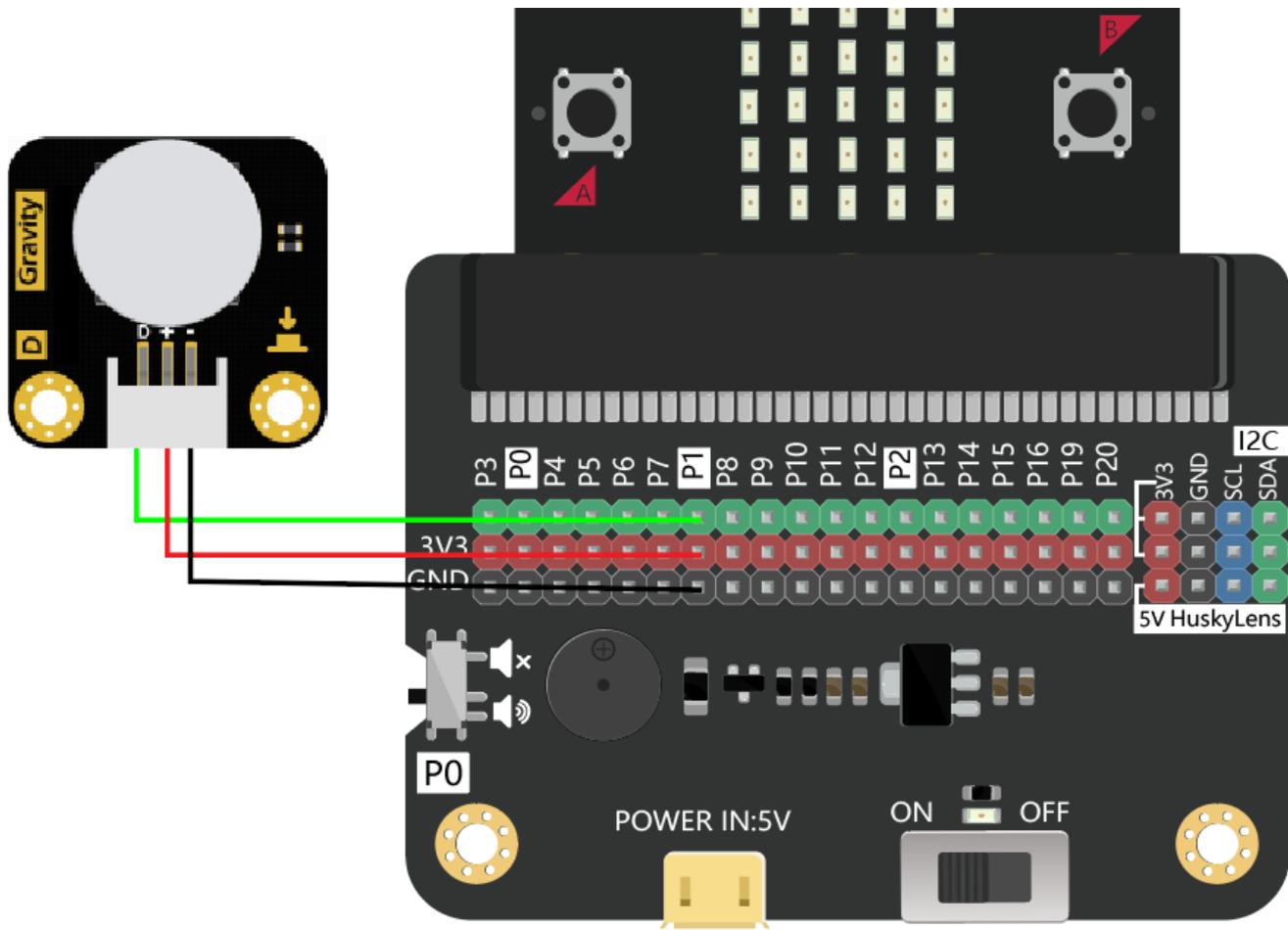
Num	Silk-screen	Description
1	D	Control port
2	+	VCC
3	-	GND

## Graphic Programming Tutorial

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### Connection Diagram





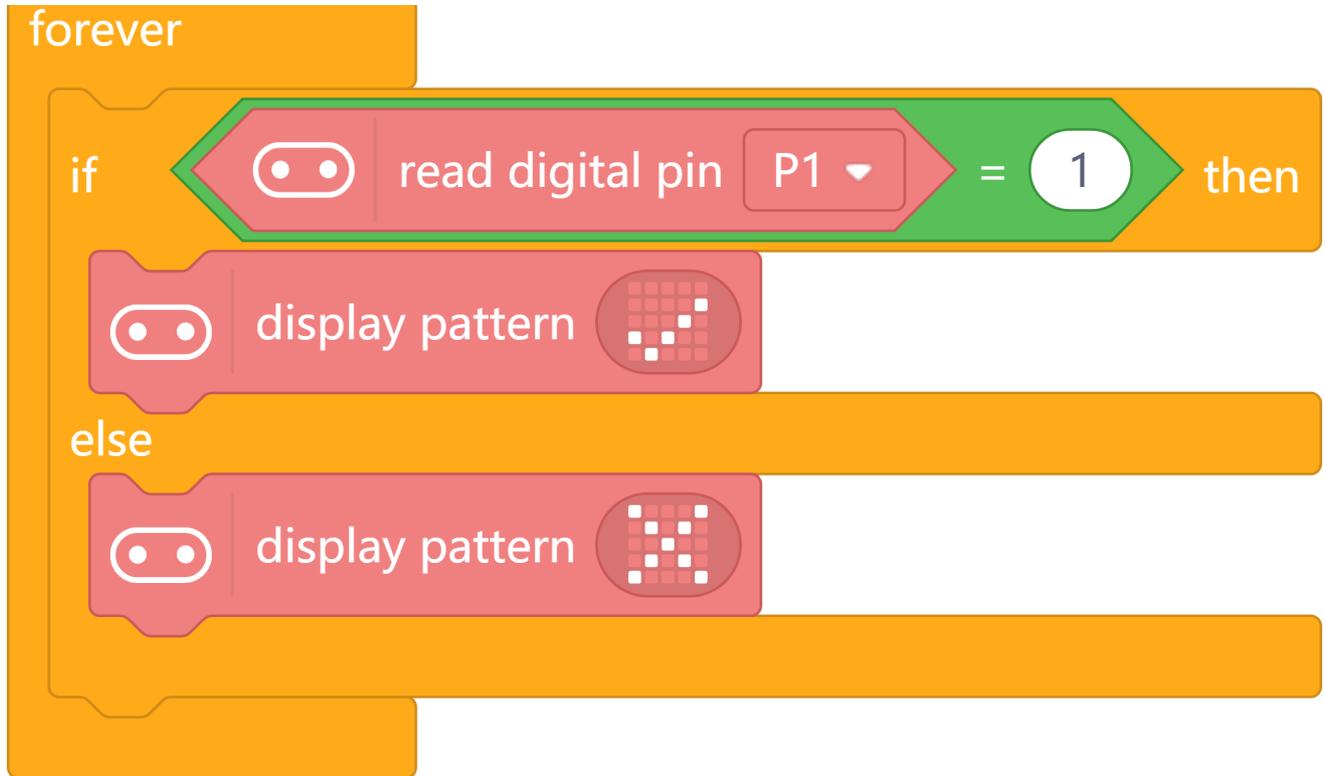
# Mind+ Graphic Programming

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:

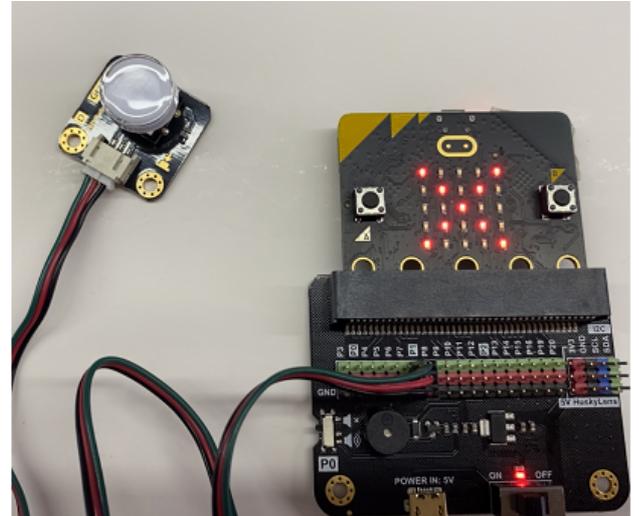
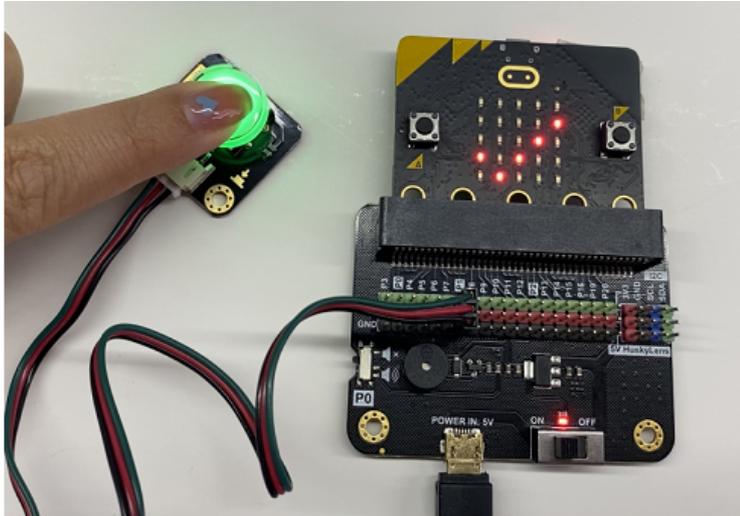
## Sample Programm

**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



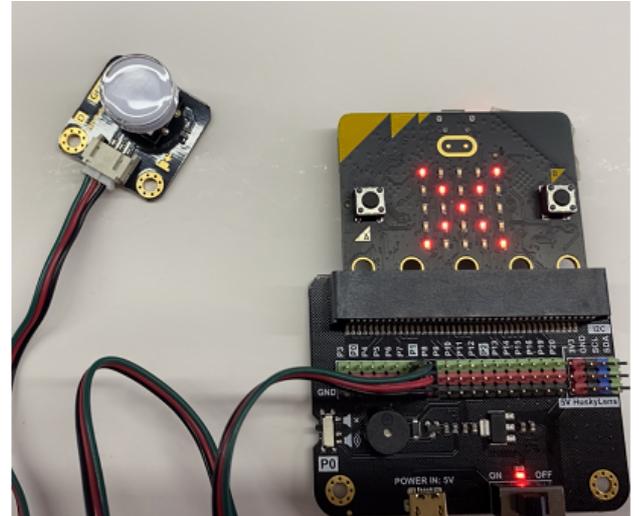
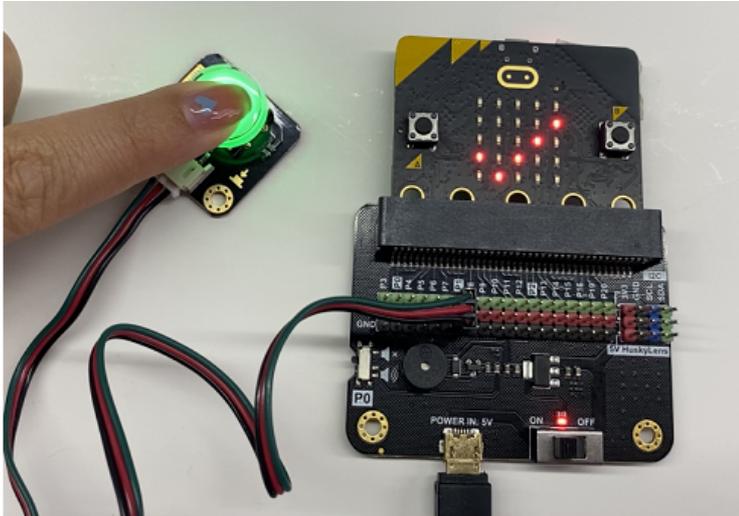
else



show icon



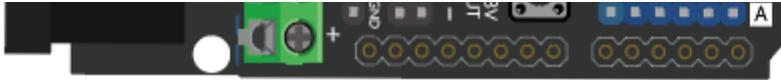
Program Effect:



## Tutorial for Arduino

### Connection Diagram





## Requirments

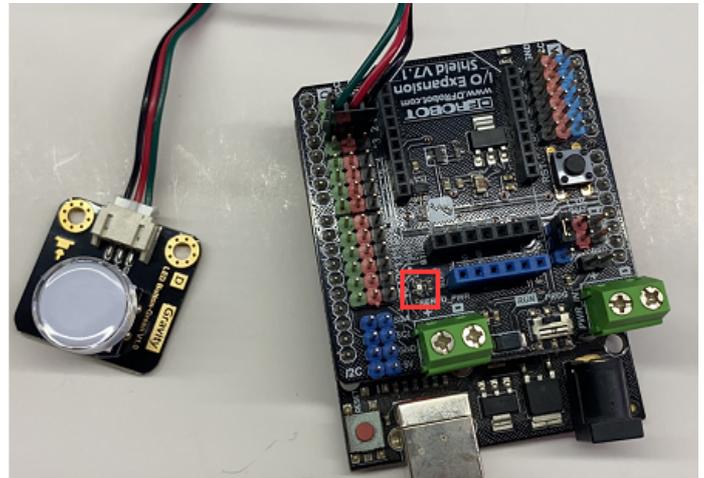
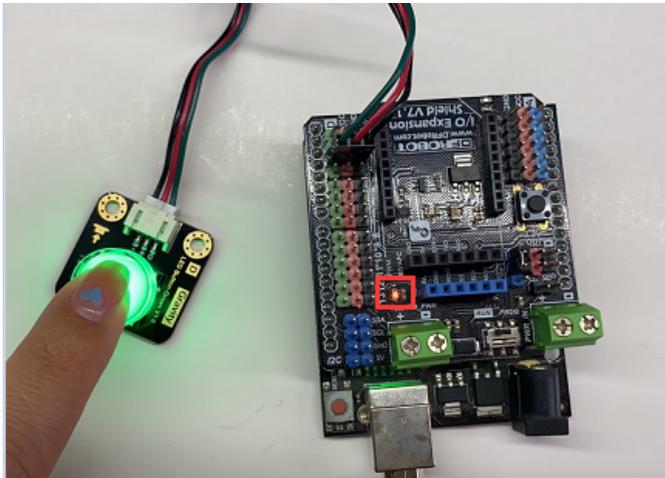
- **Hardware**
  - Arduino UNO × 1
  - LED Switch Module × 1
  - Digital Cable × 1
- **Software**
  - Arduino IDE (<https://www.arduino.cc/en/Main/Software>)

## 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

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

## More Documents

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 **DFshopping\_car1.png** 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**