### SKU:DFR0789 (https://www.dfrobot.com/product-2350.html)

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# Introduction

This is a simple LED-illuminated self-lock switch button. 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, such as, switch, backlight keyboard, music player panel, recording control panel, etc.



- Operating Voltage: +3.3-5V (3.3V is recommended)
- Output: digital
- Connector: PH2.0-3P
- Dimension: 27×26.5mm
- · Colors Availables rad vallous areas blue white

COIOIS Available, reu, yellow, green, blue, white

Note: The module comes with self-lock function. When the button is pressed down, the module outputs High, and the LED lights up. When being pressed again, the module outputs Low and the LED turns off.

## **Board Overview**



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



# **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)
- 2. Switch to "offline mode". Detailed tutorial: https://mindplus.dfrobot.com/microbit (https://mindplus.dfrobot.com/microbit)
- 3. In "expansion", select "Arduino Uno" in "main controller".

#### 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 " $\checkmark$ ". When you press the button again, the LED will be off, and the screen will display " $\times$ ".





**Program Effect:** 



### MakeCode Graphic Programming

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

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 " $\checkmark$ ". When you press the button again, the LED will be off, and the screen will display " $\times$ ".



#### Program Effect:



# **Tutorial for Arduino**

**Connection Diagram** 





#### Requirements

- 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 pir
 */
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 wal - digital Doad/insut Dis). //Doad issue walus
```



#### Program Effect:



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

## **More Documents**

DFshopping\_car1.png Get LED Switch (https://www.dfrobot.com/product-2350.html) from DFRobot Store or DFRobot Distributor. (https://www.dfrobot.com/index.php? route=information/distributorslogo)

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