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SEN0253 Gravity BNO055 + BMP280 Intelligent 10DOF AHRS
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SEN0002 URM04 V2.0
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SEN0304 URM09 Ultrasonic Sensor (Gravity-I2C) (V1.0)
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SEN0312 ME007YS Waterproof Ultrasonic Sensor
SEN0313 A01NYUB Waterproof Ultrasonic Sensor
DFR0066 SHT1x Humidity and Temperature Sensor
DFR0067 DHT11 Temperature and Humidity Sensor
SEN0137 DHT22 Temperature and humidity module
DFR0023 DFRobot LM35 Linear Temperature Sensor
DFR0024 Gravity DS18B20 Temperature Sensor Arduino Compatible V2
DFR0024 Gravity DS18B20 Temperature Sensor Arduino Compatible V2
SEN0114 Moisture Sensor
TOY0045 TMP100 Temperature Sensor
TOY0054 SJ7021 Temperature and humidity sensor

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LED Button

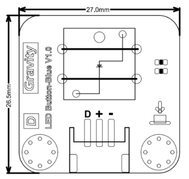
SKU:DFR0785

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 microbit to realize various fun interactive projects! Note: When pressed down, the module output high, and the LED lights up.

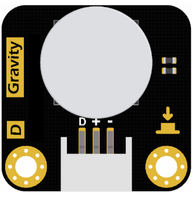
Specification



- 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.

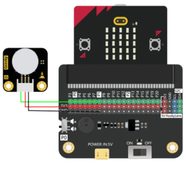
Board Overview



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

Graphic Programming Tutorial

Connection Diagram

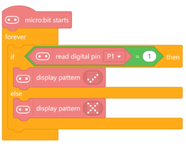


Mind+ Graphic Programming

1. Download and install the software. Download address: http://mindplus.cc/en.html 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 microbit dot matrix screen will display "√". When released, the LED will be off, and the screen will display "×".



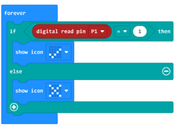
Program Effect:

MakeCode Graphic Programming

Click link to Basic operation tutorial for MakeCode.

Sample Program

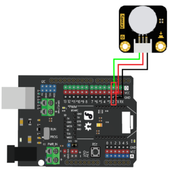
Function Description: When you first press the button, the LED on it will be lighten up, and the microbit dot matrix screen will display "√". When released, the LED will be off, and the screen will display "×".



Program Effect:

Tutorial for Arduino

Connection Diagram



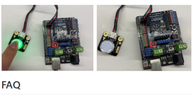
Requirments

- Hardware
  - Arduino UNO × 1
  - LED Switch Module × 1
  - Digital Cable × 1
- Software
  - Arduino IDE

Sample Code

```
/*
  Description:
  When you press the button for the first time, Its l
  When you press the button again, its inner LED will

*/


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

void setup() {
  pinMode(ledPin, OUTPUT);      // Define the pin of
  pinMode(inputPin, INPUT);     // Define the pin of

}

void loop(){
  int val = digitalRead(inputPin);  //Read input valu
  if (val == HIGH) {                // Check If the input
    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.

More Documents

Get LED Button from DFRobot Store or DFRobot Distributor.

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