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SEN0140 10 DOF Mems IMU Sensor V2.0
SEN0250 Gravity BMI160 6-Axis Inertial Motion Sensor
SEN0253 Gravity BNO055 + BMP280 intelligent 10DOF AHRS
SEN0001 URM37 V5.0 Ultrasonic Sensor
SEN0002 URM04 V2.0
SEN0004 SRF01 Ultrasonic sensor
SEN0005 SRF02 Ultrasonic sensor
SEN0006 SRF05 Ultrasonic sensor
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SEN0149 URM06-RS485 Ultrasonic
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SEN0304 URM09 Ultrasonic Sensor (Gravity-I2C) (V1.0)
SEN0304 URM09 Ultrasonic Sensor (Gravity-I2C) (V1.0)
SEN0300 Water-proof Ultrasonic Sensor ULS
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SEN0307 URM09 Ultrasonic Sensor Gravity Analog
SEN0311 A02YYUW Waterproof Ultrasonic Sensor
SEN0312 ME007YS Waterproof Ultrasonic Sensor
SEN0313 A01NYUB Waterproof Ultrasonic Sensor
DFR0066 SHT1x Humidity and Temperature Sensor
DFR0067 DHT11 Temperature and Humidity Sensor

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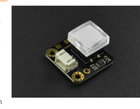
LED Switch

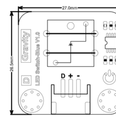
SKU:DFR0789

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.

Specification



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

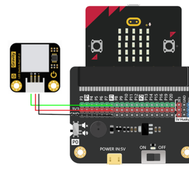
Note: The module comes with self-lock function. When the button is pressed down, the module outputs High, and the LED lights up. When being pressed again, the module outputs Low and the LED turns off.

Board Overview

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

Graphic Programming Tutorial

Connection Diagram

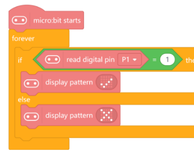


Mind+ Graphic Programming

1. Download and install the software. Download address: http://mindplus.cc/en.html
2. Switch to "offline mode". Detailed tutorial: 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 "√". When you press the button again, the LED will be off, and the screen will display "×".



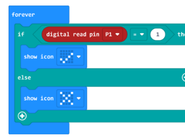
Program Effect:

MakeCode Graphic Programming

Click link to Basic operation tutorial for MakeCode.

Sample Program

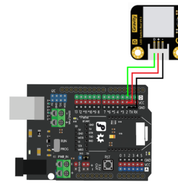
Function Description: When you first press the button, the LED on it will be lighten up, and the micro:bit dot matrix screen will display "√". When you press the button again, the LED will be off, and the screen will display "×".



Program Effect:

Tutorial for Arduino

Connection Diagram



Requirements

- **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 li
  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 Switch from DFRobot Store or DFRobot Distributor.

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