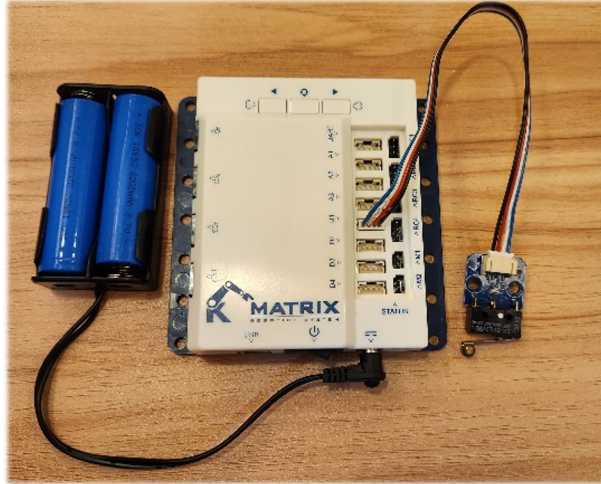


MS-004V2 Matrix Miniature V2 Example of use

1. Hardware Configuration

Digital ports : D1 ~ D4



2. Sensor return value

Return value: 0,1 (Released ~ Pressed)

3. mBlock command

Mini Read Digital Signal D1 ▼	Read whether the miniature switch has been pressed.
--------------------------------------	---

4. mBlock example program

Repeat: The Miniature switch returns the D1 value and determines

When D1=1, LED1 output **red**.

When D1=0, LED1 output **green**.

```
Matrix Mini Begin 2C Li Serial IT Disable Baud 115200
forever
  if Mini Read Digital Signal D1 then
    Mini RGB LED LED1 R 255 G 0 B 0
  else
    Mini RGB LED LED1 R 0 G 255 B 0
```

5. Arduino Sample Programs

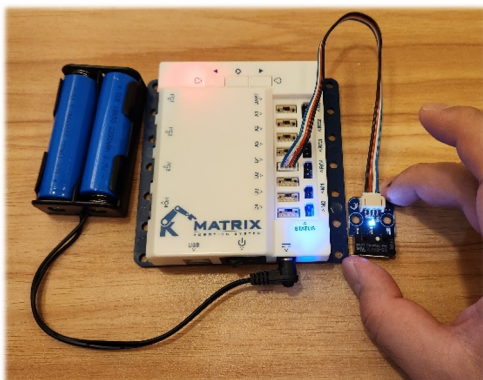
```
1 // generated by mBlock5 for Matrix Mini
2 // codes make you happy
3
4 #include <Arduino.h>
5 #include "MatrixMini/MatrixMini.h"
6
7 void _delay(float seconds) {
8     long endTime = millis() + seconds * 1000;
9     while(millis() < endTime) {
10         ;
11     };
12 }
13 void setup() {
14     Mini.begin(7.4,0,115200);
15     while(1) {
16         if(Mini.D1.get()){
17             Mini.RGB1.setRGB(255,0,0); //RGB value range: 0 ~ 255
18
19         }else{
20             Mini.RGB1.setRGB(0,255,0); //RGB value range: 0 ~ 255
21
22         }
23     }
24     _loop();
25 }
26
27
28
29 void _loop() {
30 }
31
32 void loop() {
33     _loop();
34 }
```

6. Test results

Press the Miniature Switch

D1 = 1

R:255 G:0 B:0 => **Red**



Release the Miniature Switch

D1 = 0

R:0 G: 255 B: 0 => **Green**

