

## 1. Feature

- Use high quality Omron snap action switch.
- On-board switch detection LED.
- Additional inverting output.

Important Notice: Miniature Switch V2 and V3 are **100% compatible** in hardware and software.

## 2. Application

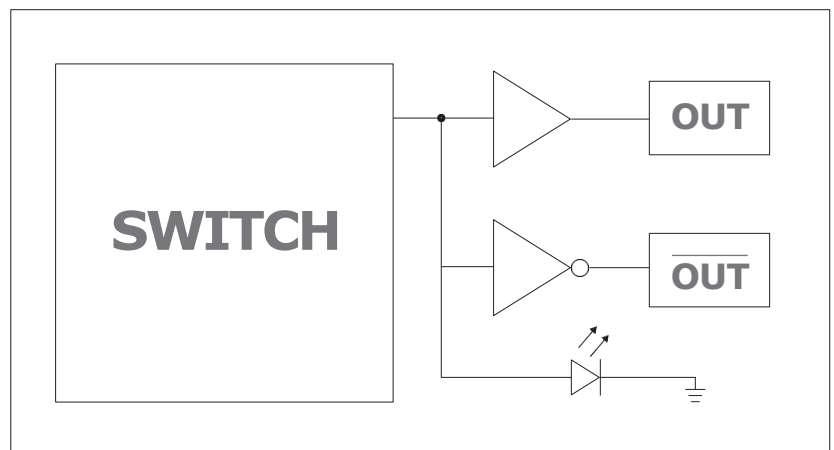
- Counter
- Location detector
- Power switch



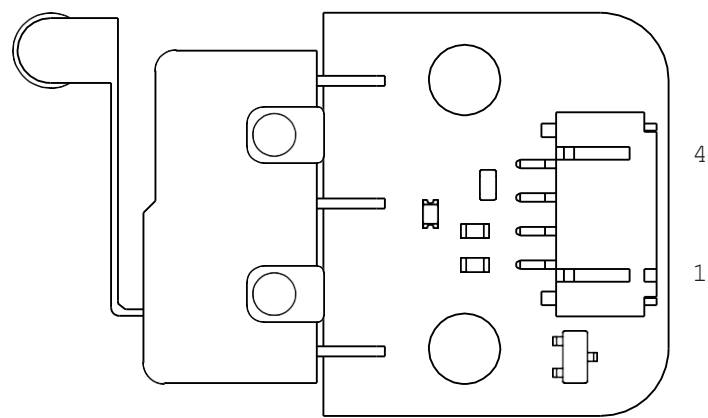
## 3. Introduction

Matrix Switch Sensor is a microswitch which allows users to detect on/off with digital signal. Onboard LED synchronously with the button.

## 4. Block Diagram



5. Pinout



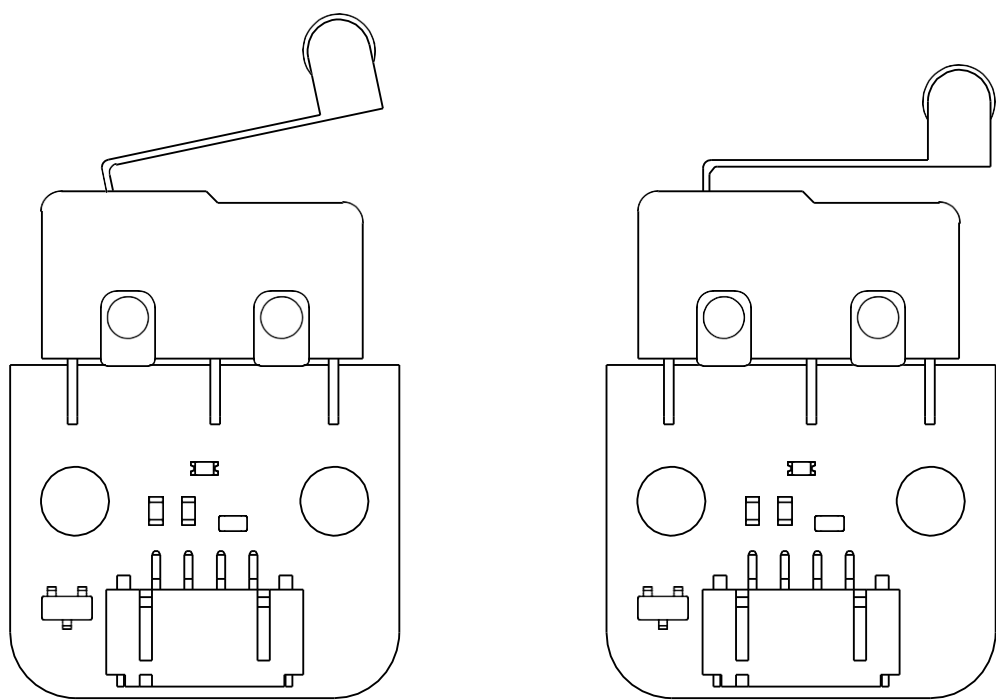
Pinout			
NO.	Name	I/O	Description
1	OUT	O	Switch logic output, voltage set to VCC while switch is pushed .
2	NOUT	O	Negative of output.
3	VCC	I	Supply voltage.
4	GND	-	Supply ground.

6. Electrical Characteristics

Parameter	Min	Typ	Max	Units
Supply Voltage (VCC)	3.3	-	5	V
Operating force	-	-	0.49	N
Switch bounce time	-	-	5	ms

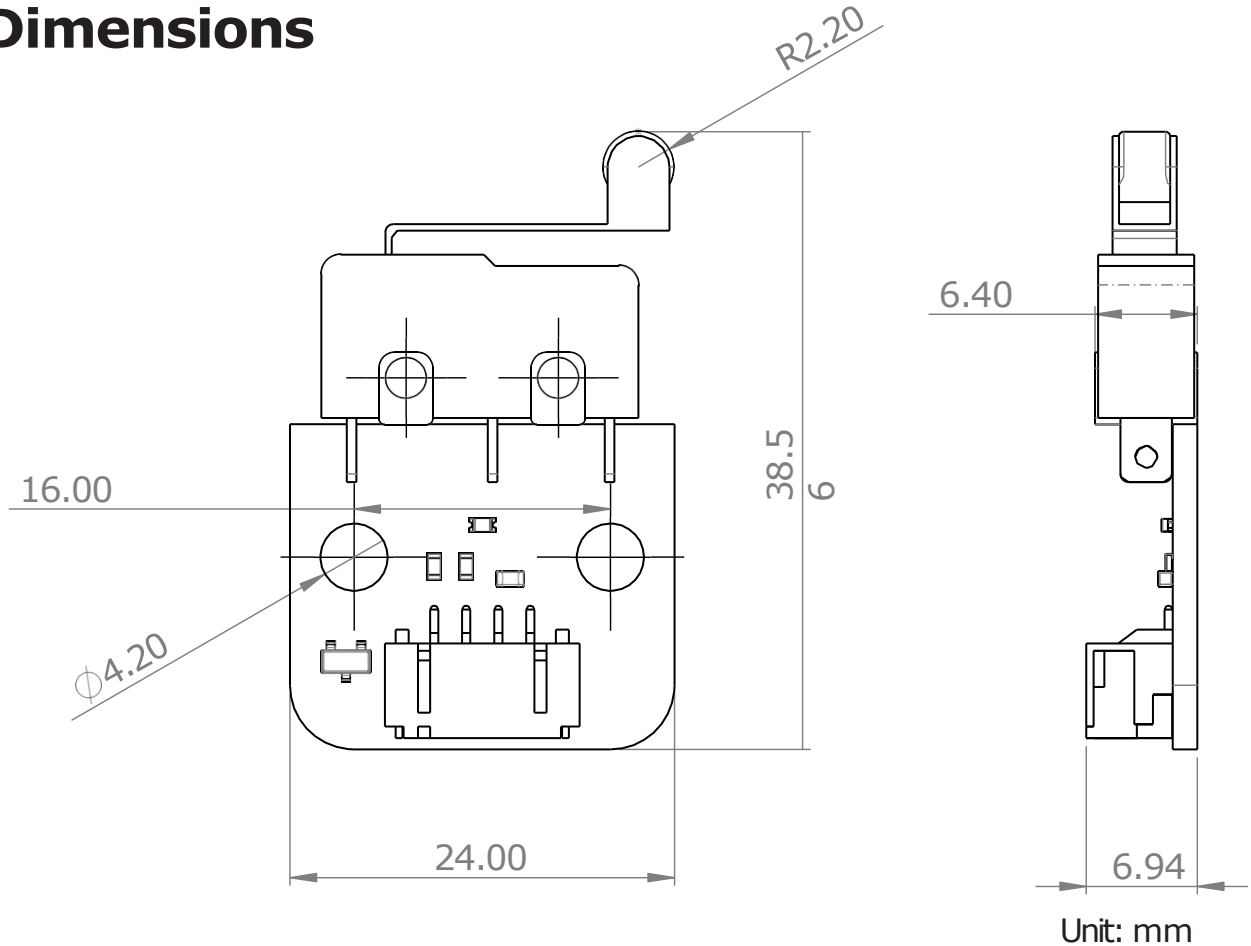
## 7. Usage

Press the miniature switch on the top, the output logic will follow the boolean table as below. Onboard LED will turn on at the same time. Release the switch to return to the stable state and logic as well.



Boolean Table		
Switch State	Logic	
	release	press
OUT	0	1
NOUT	1	0

## 8. Dimensions



## 9. Disclaimer

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