

# SPD

## ILLUMINATED TACTILE SWITCH SERIES



PAT. I 328824  
PAT. ZL 2007 2 0141338.4

**General Specifications**  
 Circuit :SPST  
 Current Rating :50mA @ 12VDC  
 Contact Resistance :100mOhm Max.(initial)  
 Insulation Resistance :100MOhm Min.  
 Operating Force :220gf±50gf  
 Total Travel :0.3mm±0.1mm  
 Mechanical Life :1,000,000 cycles Min.  
 Operating Temperature :-25 °C ~ +60 °C

**Materials**  
 Cover :Polycarbonate (PC)  
 Reflector :Polyamide(PA)  
 Base :LCP  
 Action Dome :Stainless steel with silver plating  
 Terminal :Phosphor bronze (PBS) with gold plating

- Features**
- Bright LEDs of Single, Dual or RGB colors available.
  - Full face illumination.
  - Small and short body for mounting in tight spaces.
  - Snap-actioning contact mechanism.
  - Build your own legend.
  - Long operating Life.

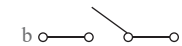
- RGB+IC Feature**
- Uses WS2812B 5V RGB led with programmable .
  - RGB Led Can be connected in series to reduce wiring.

### Contact configuration

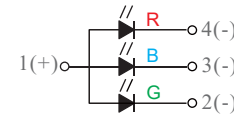
/ Single LED



/ Switch



/ RGB LED



/ RGB+IC LED

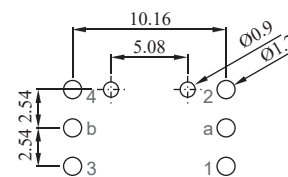


Pin	Function	Description
1	GND	GROUND
2	DIN	DATA IN
3	DOUT	DATA OUT
4	VDD	POWER VOLTAGE,5V

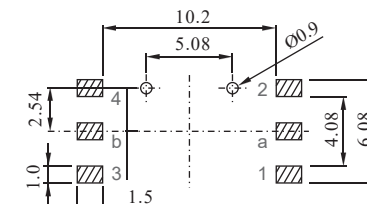
**Note**

- ⚠ Pin2,3 suggest avoiding high frequency signal to avoid interference.
- ⚠ Wrong polarity may cause damage to the function.

### PCB. layout



Through hole Type



SMD Type

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## Dimension of SPD0

/ SPD0P

/ SPD0T

/ SPD0C

9 Smart cap  
ex: YCA010T

Silicone cap  
(SPD0C)

\*Note: (SPD0C)  
With silicone cap suit for pick and  
place machine.

\*Note: (SPD0T, SPD0C)  
Fit the Cover and Cap **AFTER**  
soldering process.

## Dimension of SPDG

/ SPDGP

/ SPDGT

/ SPDGC

11.5 Smart cap  
ex: YCS0054

Silicone cap  
(SPDGC)

\*Note: (SPD2C)  
With silicone cap suit for pick and  
place machine.

\*Note: (SPD2T, SPD2C)  
Fit the Cover and Cap **AFTER**  
soldering process.

## Dimension of SPD2

/ SPD2P

/ SPD2T

/ SPD2C

12 Smart cap  
ex: YCV037T

Silicone cap  
(SPD2C)

\*Note: (SPD2C)  
With silicone cap suit for pick and  
place machine.

\*Note: (SPD2T, SPD2C)  
Fit the Cover and Cap **AFTER**  
soldering process.

## How to order

SPD

TYPE	Terminal TYPE	LED Colors	Cap Colors
0	P Through hole	0 Without LED	1 Red
2	T SMD	1 Red	2 Yellow
G	Taping reel (350PCS/reel)	2 Super Yellow	3 Green
	C SMD	3 Green	4 White
	Silicone cap (350PCS/reel)	5 Pure Green	7 Blue
		4 White	
		7 Blue	
		9 RGB	
		V RGB+IC	

EXAMPLE:  
SPD0P24YCA047T

9  
(For SPD0)

12  
(For SPD2)

11.5  
(For SPDG)

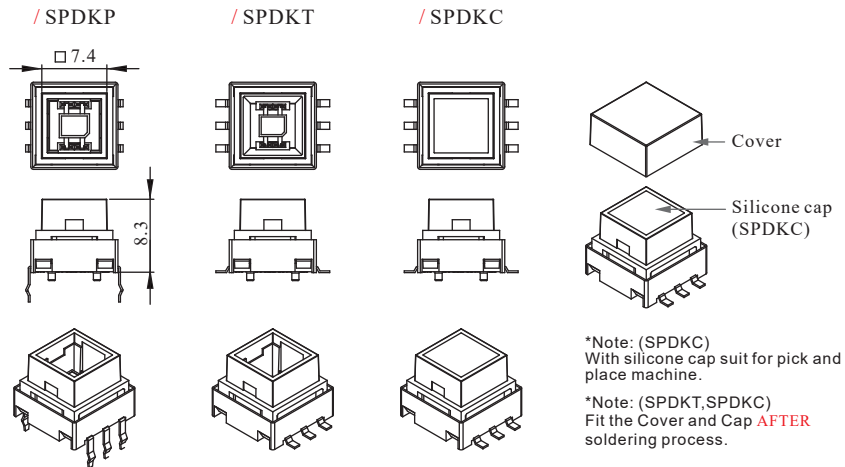
※ Not to conform to SPD□C.  
※ Not to conform to SPDG.  
※ SPD0 with □9 Transparent  
Smart Cap, Standard option  
4(White) only.

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## Dimension of SPDK



## How to Order

