



# Shan Pu

## Pushbutton Switches Series **SPC**



### General Specifications

Switch circuit :SPDT or DPDT  
 Switch contact rating :3A @ 125/250V AC or 3A @ 30V DC  
 LED rating :Limited forward current(IF) at 20mA max  
 Contact Resistance :50 m Ohm Max(initial)  
 Insulation Resistance :200 M Ohm Min  
 Operating Force :Single pole: 190gf±50gf  
 Double pole: 200gf±50gf

Total Travel :2.3mm±0.5mm  
 Mechanical Life :1,000,000 cycles min. for Momentary.  
 200,000 cycles min. for Alternate.  
 Electrical Life :10,000 cycles min. for silver alloy contact  
 Operating Temperature :-25°C ~ +50 °C  
 Function :Momentary or Alternate

### Material

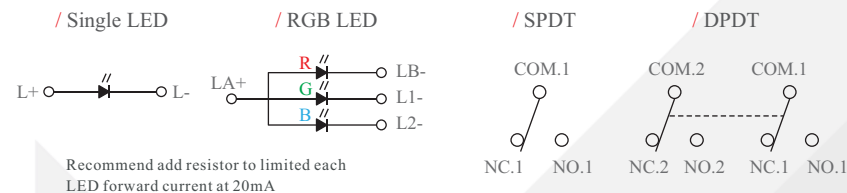
Cap :Polycarbonate(PC)  
 Housing :Polyamide (PA)  
 Snap-in Frame :Stainless steel  
 Switch/LED Terminal :Phosphor bronze (PBS) with gold plating  
 Movable Contacts :Silver alloy  
 Spring :Piano wire  
 Base :Polyamide(PA)

### Features

- Bright LEDs of Single,RGB colors available.
- Full face illumination plus in square or rectangular models.
- Combination of PCB mounting and Panel snap-in.
- Small and short body for mounting in tight spaces.
- Snap-action contact mechanism.
- Momentary and Alternate available.

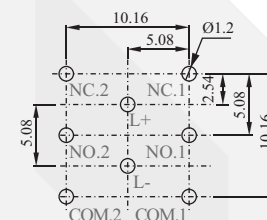
PAT. I 328825  
 PAT. ZL 2007 2 0141337. X

### Contact Configuration

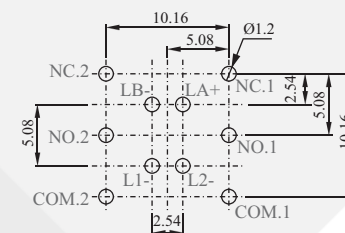


### PCB Layout

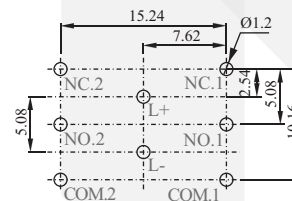
#### / Single LED (Square Type)



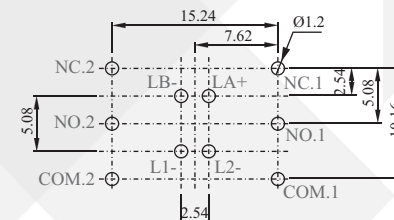
#### / RGB LED (Square Type)



#### / Single LED (Rectangular Type)



#### / RGB LED (Rectangular Type)



### Note:

Single & Double Pole: Single pole do not have terminal Com2, NO.2. and NC2

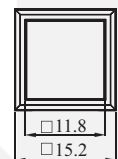


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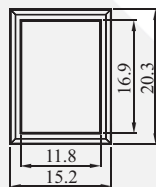
## Pushbutton Switches Series **SPC**

### Dimension

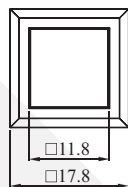
/ SPC□□SP



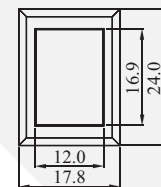
/ SPC□□RP



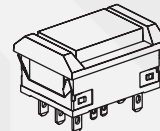
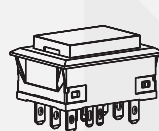
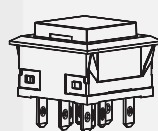
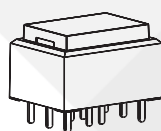
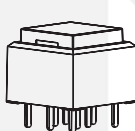
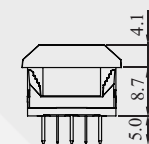
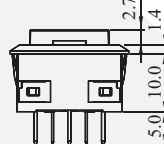
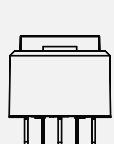
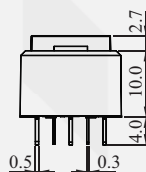
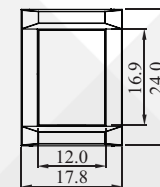
/ SPC□□SS



/ SPC□□RS

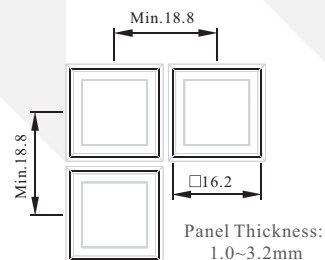


/ SPC□□WS

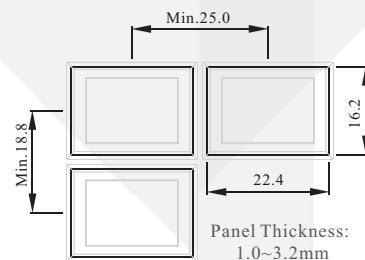


### Panel cutting

/ SPC□□SS



/ SPC□□RS, SPC□□WS



### How to order

SPC

| Function Code |                 |
|---------------|-----------------|
| MS            | Momentary, SPDT |
| MD            | Momentary, DPDT |
| AS            | Alternate, SPDT |
| AD            | Alternate, DPDT |
| I             | Indicator       |

| Apparent Shaped / Terminal type |                                            |
|---------------------------------|--------------------------------------------|
| SP                              | Square / Straight PC                       |
| RP                              | Rectangular / Straight PC                  |
| SS                              | Square / Snap-in type                      |
| RS                              | Rectangular / Snap-in type                 |
| WS                              | Protective Wall-Rectangular / Snap-in type |

EXAMPLE :  
SPCMSST-1P3

| CAP & Diffuser Color |                                         |
|----------------------|-----------------------------------------|
| T                    | Transparent cap & White diffuser        |
| T1                   | Red Transparent cap & White diffuser    |
| T2                   | Yellow Transparent cap & White diffuser |
| T3                   | Green Transparent cap & White diffuser  |
| T5                   | Black Transparent cap & White diffuser  |
| T7                   | Blue Transparent cap & White diffuser   |
| 1T                   | Transparent cap & Red diffuser          |
| 2T                   | Transparent cap & Yellow diffuser       |
| 3T                   | Transparent cap & Green diffuser        |
| 6T                   | Transparent cap & Orange diffuser       |
| 7T                   | Transparent cap & Blue diffuser         |

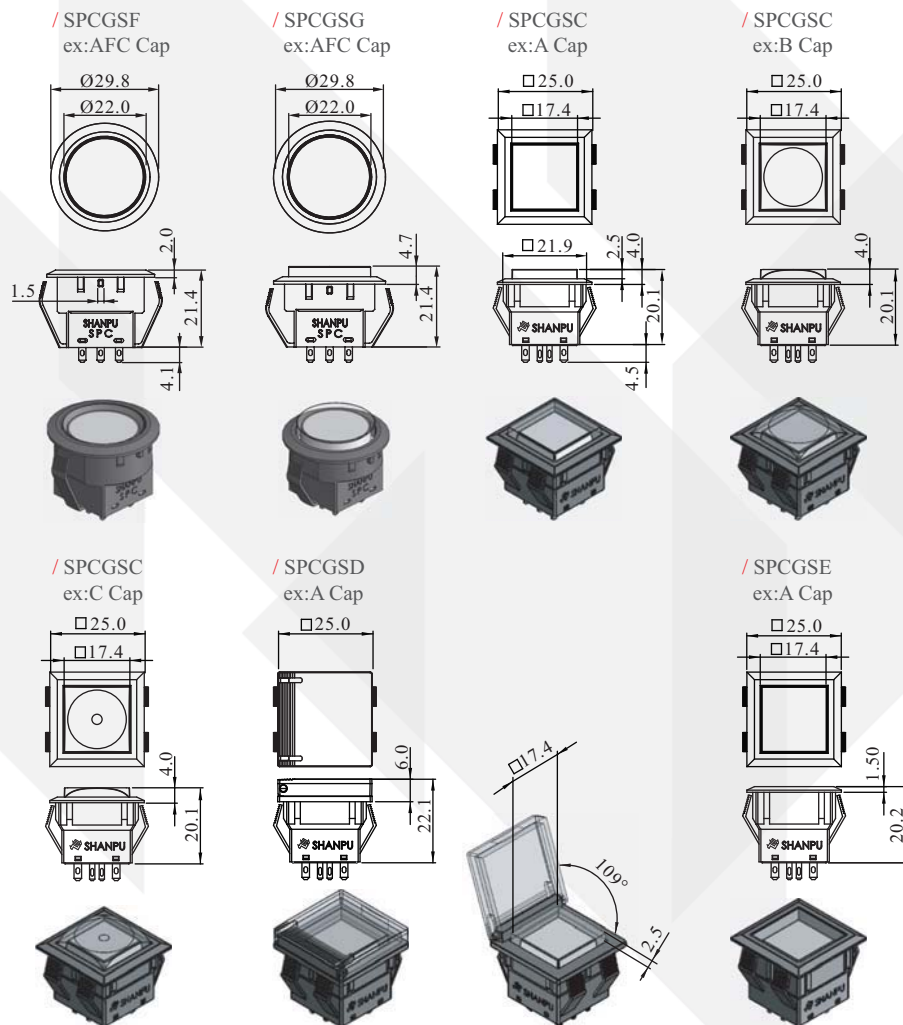
| LED Colors     |                |
|----------------|----------------|
| 00             | Without LED    |
| Single Colors  |                |
| 01             | Red            |
| S2S            | Super Yellow   |
| P3S            | Pure Green     |
| 7S             | Blue           |
| 4S             | White          |
| Tri-colors LED |                |
| RGB            | RGB Full color |



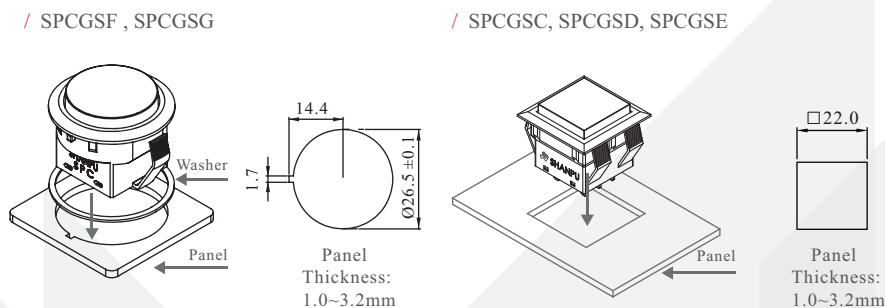
# Shanpu

## Pushbutton Switches Series SPC

### Dimension (SPCGS)



### Panel Cutting & Installation Notes (SPCGS)



### How to order

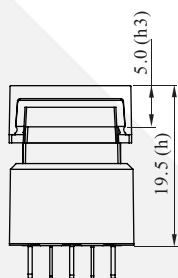
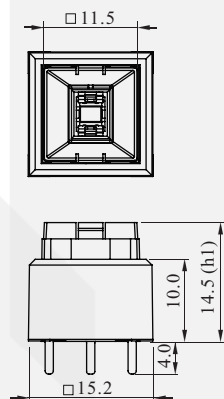
|                                                                                                                                  |  |                                                                                                                                                                         |  |                                 |                                                                                                                                                                                                     |  |  |
|----------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| SPCGS                                                                                                                            |  |                                                                                                                                                                         |  | 5                               |                                                                                                                                                                                                     |  |  |
| <b>Button Convex/Flat</b><br>F Round Flat<br>G Round Convex<br>C Square Convex<br>D Square Convex<br>Protective<br>E Square Flat |  | <b>LED Colors</b><br>0 Without LED<br><b>Single Colors</b><br>1 Red<br>2 Super Yellow<br>4 White<br>5 Pure Green<br>7 Blue<br><b>Tri-colors LED</b><br>9 RGB Full color |  | <b>Housing Color</b><br>5 Black | <b>Cap Style / Color</b><br>AFC Ø22.0 Round Flat / Clear<br>AFCC Ø22.0 Round Flat / Clear Black<br>A □17.4 Square Flat / Clear<br>B □17.4 Square Concave / Clear<br>C □17.4 Square Spot key / Clear |  |  |

EXAMPLE:  
SPCGSAMD95AFCC



## Pushbutton Switches Series **SPC**

### Dimension (SPCG)



EXAMPLE:  
SPCGMS1YCS0054  
(h1) 14.5mm + (h3) 5.0mm  
= (h) 19.5mm

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### How to order (SPCG)

SPCG

| Function Code |                 |
|---------------|-----------------|
| MS            | Momentary, SPDT |
| MD            | Momentary, DPDT |
| AS            | Alternate, SPDT |
| AD            | Alternate, DPDT |

| LED Colors     |                |
|----------------|----------------|
| 0              | Without LED    |
| Single Colors  |                |
| 1              | Red            |
| 2              | Super Yellow   |
| 4              | White          |
| 5              | Pure Green     |
| 7              | Blue           |
| Tri-colors LED |                |
| 9              | RGB Full color |



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EXAMPLE:  
SPCGMS1YCS0054