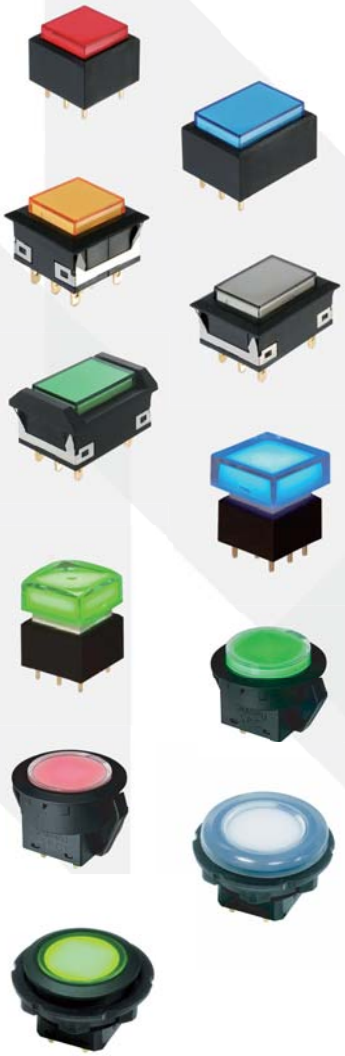
ShanPu

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

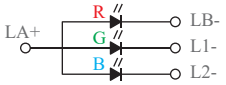
- Bright LEDs of Single,RGB colors available.
- Full face illumination plus in square or rectangular models.
- Combination of PCB mounting and Panel snap-in.
- Small and short body for mounting in tight spaces.
- Snap-action contact mechanism.
- Momentary and Alternate available.

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

Contact Configuration

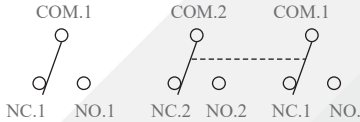
/ Single LED

/ RGB LED



Recommend add resistor to limited each LED forward current at 20mA

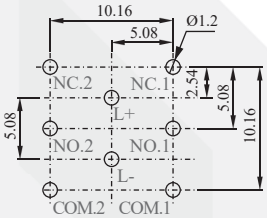
/ SPDT



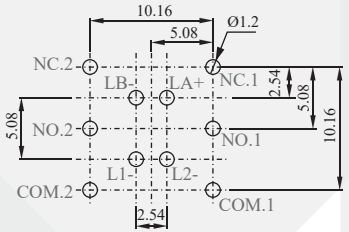
/ DPDT

PCB Layout

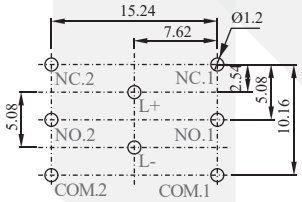
/ Single LED (Square Type)



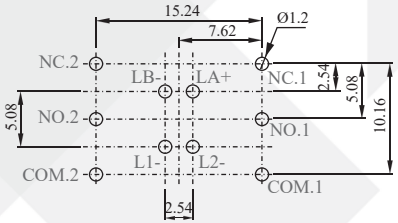
/ RGB LED (Square Type)



/ Single LED (Rectangular Type)



/ RGB LED (Rectangular Type)



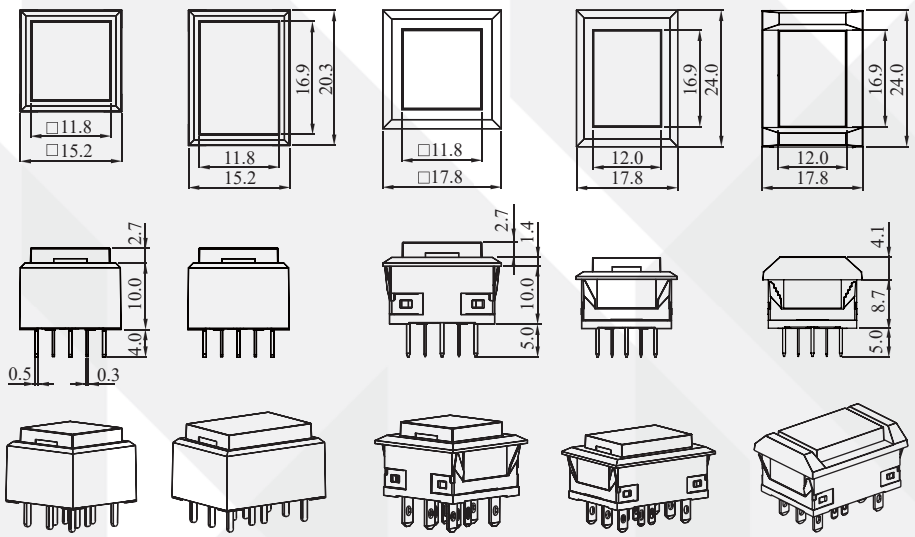
Note:
Single & Double Pole:Single pole do not have terminal Com2, NO.2. and NC2

ShanPu

Pushbutton Switches Series SPC

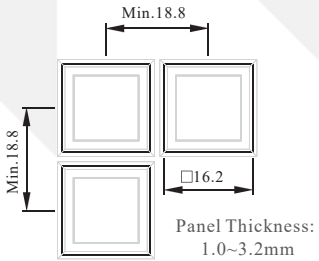
Dimension

/ SPC□□SP / SPC□□RP / SPC□□SS / SPC□□RS / SPC□□WS



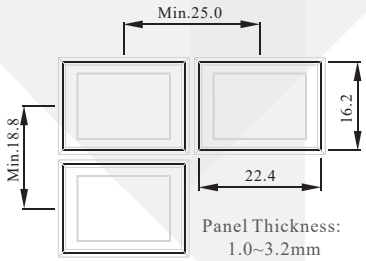
Panel cutting

/ SPC□□SS



Panel Thickness:
1.0~3.2mm

/ SPC□□RS,SPC□□WS



Panel Thickness:
1.0~3.2mm

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 :
SPCMSSST-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

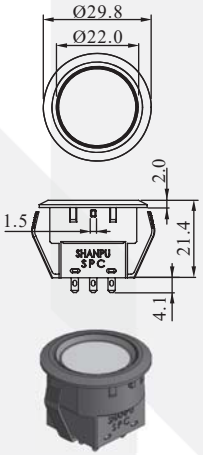
00	Without LED
Single Colors	
01	Red
S2S	Super Yellow
P3S	Pure Green
7S	Blue
4S	White
Tri-colors LED	
RGB	RGB Full color

ShanPu

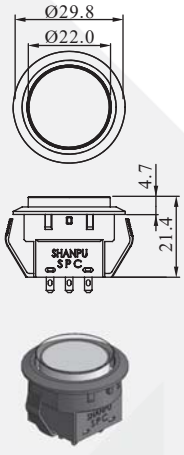
Pushbutton Switches Series SPC

Dimension (SPCGS)

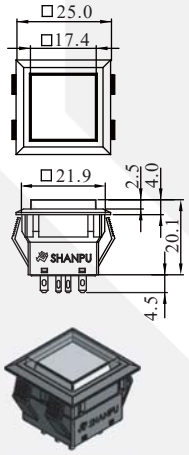
/ SPCGSF
ex:AFC Cap



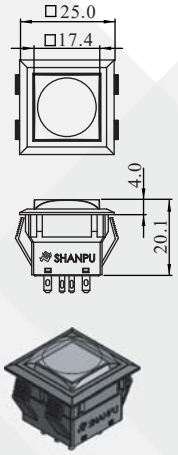
/ SPCGSG
ex:AFC Cap



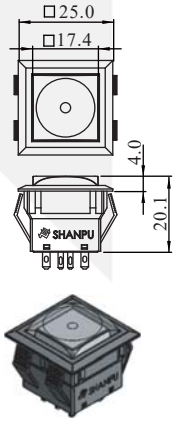
/ SPCGSC
ex:A Cap



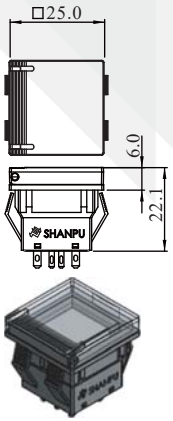
/ SPCGSC
ex:B Cap

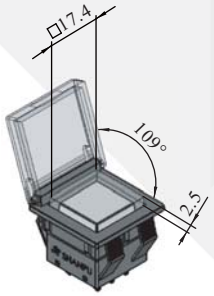


/ SPCGSC
ex:C Cap

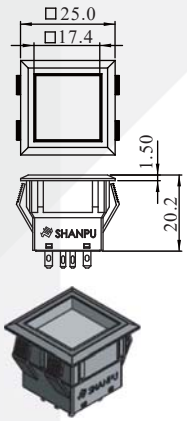


/ SPCGSD
ex:A Cap



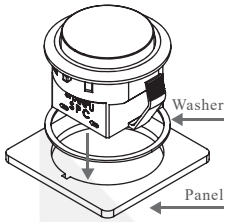


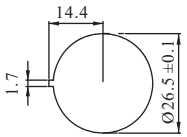
/ SPCGSE
ex:A Cap



Panel Cutting & Installation Notes (SPCGS)

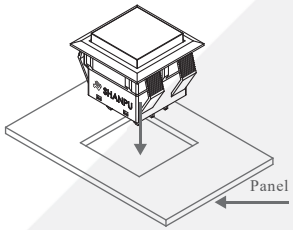
/ SPCGSF , SPCGSG

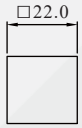




Panel
Thickness:
1.0~3.2mm

/ SPCGSC, SPCGSD, SPCGSE





Panel
Thickness:
1.0~3.2mm

How to order

S P C G S □□□□ 5 □□□□

Button Convex/Flat

F	Round Flat
G	Round Convex
C	Square Convex
D	Square Convex Protective
E	Square Flat

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

Housing Color

5	Black

Cap Style / Color

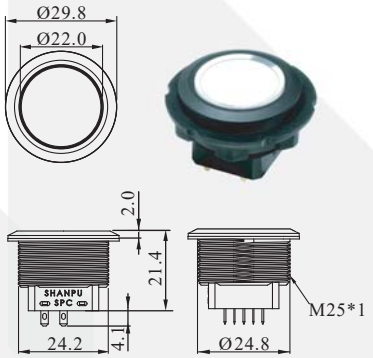
AFC	Ø22.0 Round Flat / Clear
AFCC	Ø22.0 Round Flat / Clear Black
A	□17.4 Square Flat / Clear
B	□17.4 Square Concave / Clear
C	□17.4 Square Spot key / Clear

EXAMPLE:
SPCGSAMD95AFCC

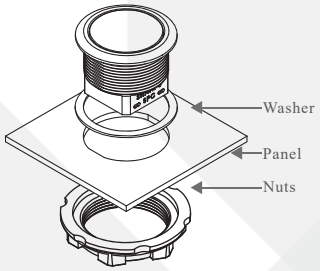
ShanPu

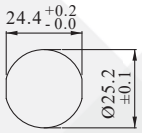
Pushbutton Switches Series SPC

Dimension (SPCGSH)



Installation Notes





Panel Thickness: 1.0~4.0mm

How to order (SPCGSH,SPCGSJ)

S P C G S □ □ □ □ 5 □ □ □ □

Type

H	Panel cutting Ø25.2mm
J	H type & Front Panel IPX7

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

Housing Color

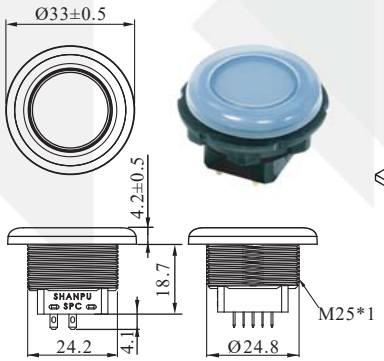
5	Black

Cap Style / Color

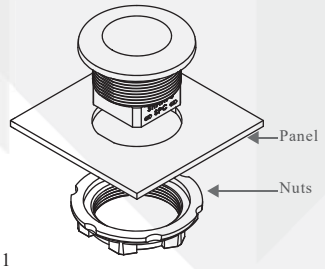
AFC	Ø22.0 Round Flat / Clear
AFCC	Ø22.0 Round Flat / Clear Black

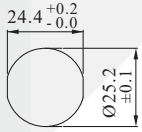
EXAMPLE:
SPCGSHMD95AFCC

Dimension (SPCGSJ) Front Panel IPX7



Installation Notes



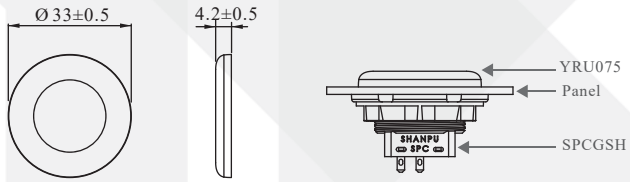


Panel Thickness: 1.0~4.0mm

Option for SPCGSH

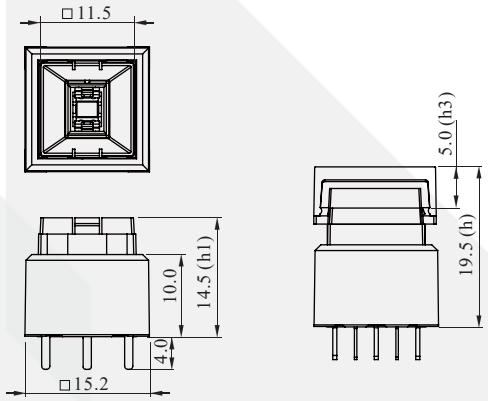
/ Front Panel IPX7 Silicone P/N : YRU075 (Only for SPCGSH)

Dimension:



Pushbutton Switches Series SPC

Dimension (SPCG)



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

From Page 43

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

SMART CAP Page 34

11.5 Page 46

EXAMPLE :
SPCGMS1YCS0054