



Noiseless illuminated Tactile Switches Series SPH2

General Specifications

Current Rating	:50mA
Voltage Rating	:12VDC
Dielectric Withstanding Voltage	:250VAC for 1 minute
Contact Resistance	:100m Ohm Max.(initial)
Insulation Resistance	:100M Ohm Min.
Mechanical Life	:1,000,000 cycles Min.
Solder Specifications	:260 deg. for 3 seconds
Function	:Momentary(SPST)
Operating Temperature	: -10 °C ~ +60 °C

Part No.	Travel (mm)	Force (gf)	Description
SPH2N	1.0 ± 0.3	60 ± 40	Noiseless, Long travel
SPH2T	0.4 ± 0.2	230 ± 50	Crisp, Long tactile travel
SPH2S	0.2 ± 0.1	190 ± 50	Normal, Short travel

Materials

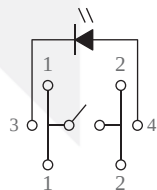
Diffuser	:Polycarbonate (PC)
Cap	:Polycarbonate (PC) Polyamide (PA)
Base	:Polyamide (PA)
Reflector	:Polyoxymethylen (POM)
Housing	:Acrylonitrile Butadiene Styrene (ABS)

Switch Terminal

:Brass with gold plating

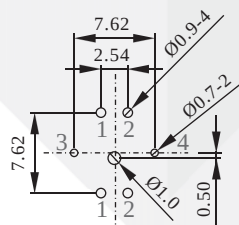
PAT. M 362501
PAT. ZL 2009 2 0149921.9

PCB layout & Circuit Diagram



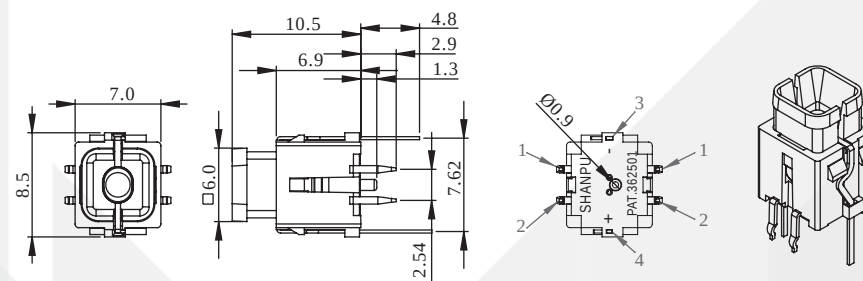
Contact Configuration

Pin	Function
1	SW COM.
2	SW N.O.
3	LED-
4	LED+



PCB Mounting

Dimension



How to Order

SPH2

TYPE	
T	Crisp, Long tactile travel
N	Noiseless, Long travel
S	Normal, Short travel

LED Color	
0	Without LED
1	Red
2	Yellow
3	Green
4	White
5	Pure Green
7	Blue



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EXAMPLE:
SPHT2SC015 YCV044T

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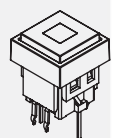
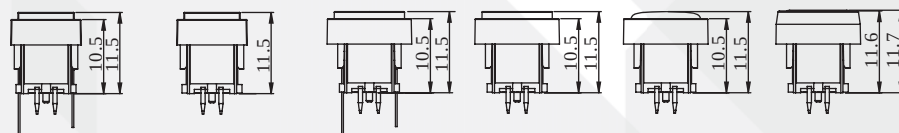
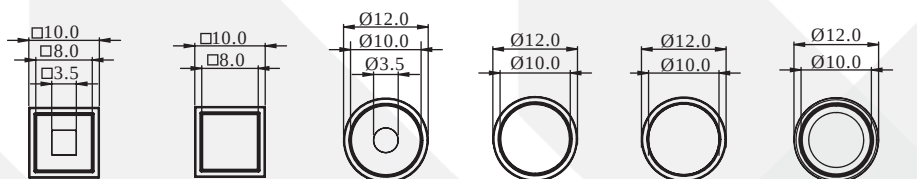


Shanpu

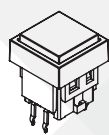
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Dimension of Housing

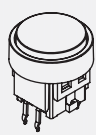
/ Cap Type 1 / Cap Type 3 / Cap Type 2 / Cap Type 4 / Cap Type 5 / Cap Type 6



/ A Housing



/ B Housing



/ C Housing

How to Order

SPH2

TYPE	
T	Crisp, Long tactile travel
N	Noiseless, Long travel
S	Normal, Short travel

LED Color	
0	Without LED
1	Red
2	Yellow
3	Green
4	White
5	Pure Green
7	Blue

EXAMPLE:
SPH2N1A515

Housing Type	
A	Square
B	Round
C	Round (Protective Wall)

Housing Color	
5	Black
L	Titanium silver

Cap Type with LED	
1	
2	
Cap Type without LED	
3	
4	
5	
6	

Cap color	
5	Black
9	Grey