

SP86N/SP86NH/SP86L SERIES

PUSH BUTTON SWITCH



General Specifications	
Circuit	:SPDT
Current Rating	:12mA.
Voltage Rating	:24 V DC
Contact Resistance	:50m Ohm Max(initial)
Insulation Resistance	:100M Ohm Min
Operating Force	:170gf±50gf (SP86N / SP86L) 400gf±100gf (SP86NH)
Total Travel	:2.5mm±0.5mm
Mechanical Life	:1,000,000 Cycles Min. (SP86N / SP86NH) 500,000 Cycles Min. (SP86L)
Solder Specifications	
Operating Temperature	:260°C for 3 seconds -10 °C ~ +60 °C
Function	:Momentary (SP86N / SP86NH) :Alternate (SP86L)
Material	
Cap	:Acrylonitrile Butadiene Styrene (ABS)
Case	:Polyamide (PA)
Fixed Support	:Stainless steel wire
Terminal	:Phosphor bronze (PBS) with gold plating
Moving Contact	:Phosphor bronze (PBS) with gold plating
Spring	:Piano wire
LED	:3mm Diameter LED Lamp

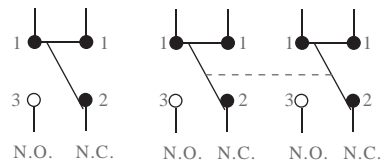
Circuit & PCB Layout

/ SP86N/SP86L

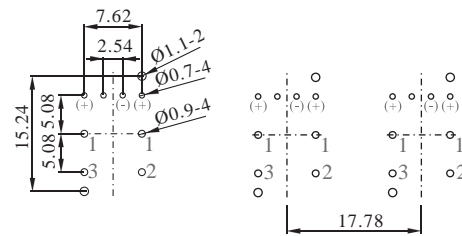
/ SP86NH

/ SP86N/SP86L

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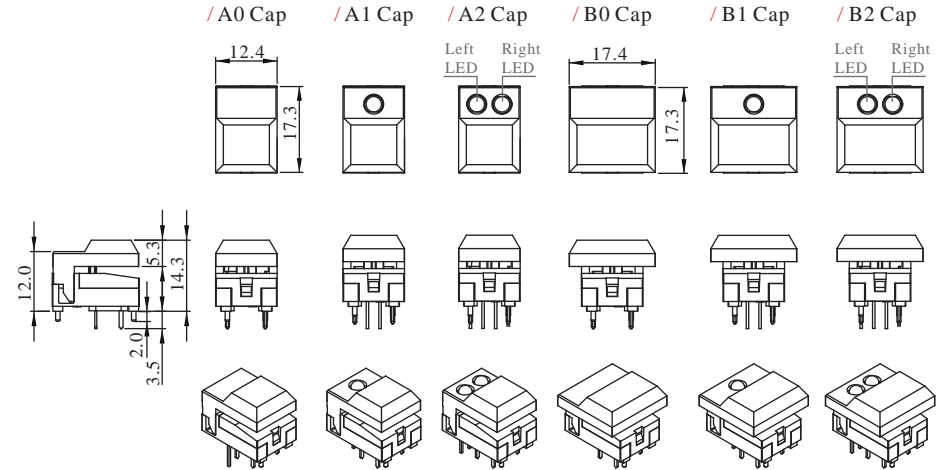


Contact Configuration



PCB Layout

Dimension (SP86N)



How to order (SP86N)

SP86N — [] — [] — [] — []

CAP Styles	
Small CAP	
A0	Without LED
A1	One-LED
A2	Two-LED
Large CAP	
B0	Without LED
B1	One-LED
B2	Two-LED

CAP Colors	
1	Red
2	Yellow
4	White
5	Black
6	Orange
7	Blue
8	Dark grey
9	Grey

* Cap color Black, Grey is standard parts.

LED Colors			
00		Without LED	
One LED			
01		Red	
02		Yellow	
03		Green	
07		Blue	
2 LEDs			
Left		Right	
1	Red	1	Red
2	Yellow	2	Yellow
3	Green	3	Green
7	Blue	7	Blue

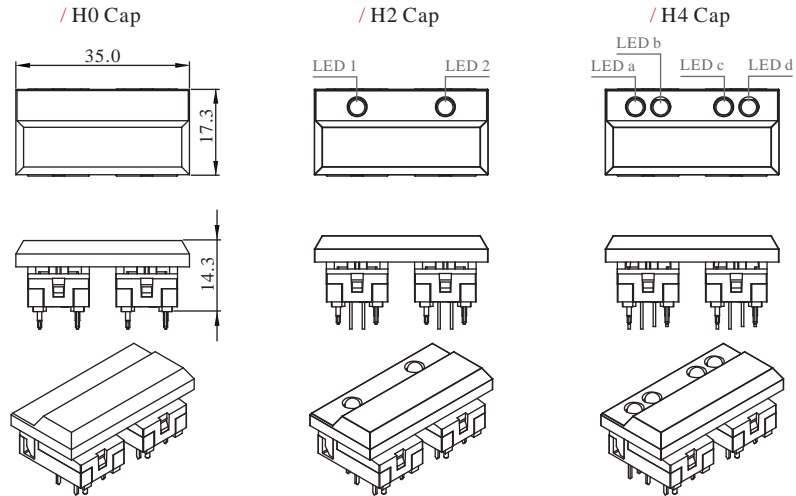
EXAMPLE :
SP86N-B0-1-01
SP86N-A2-5-13

SP86N/SP86NH/SP86L SERIES

PUSH BUTTON SWITCH



Dimension (SP86NH)



How to order (SP86NH)

SP86N — **H** — [] — [] — [] — []

Double wide CAP	
H0	Without LED
H2	Two-LED
H4	Four-LED

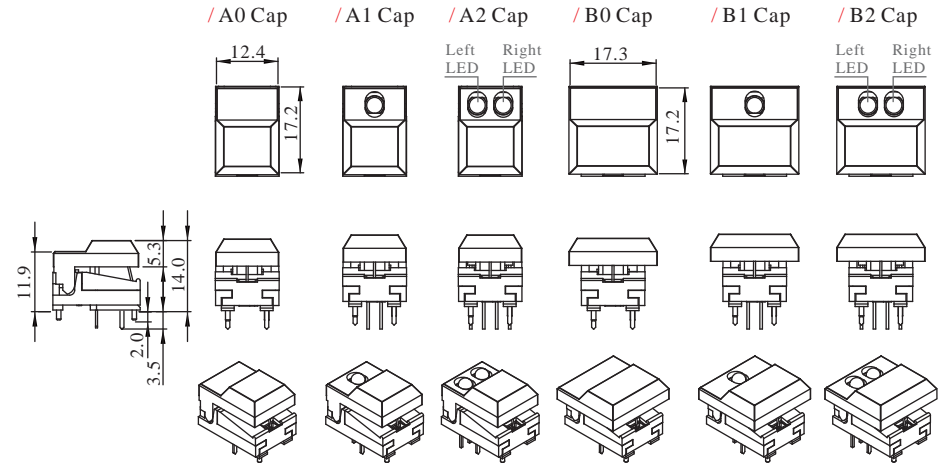
EXAMPLE : SP86NH2511

CAP Colors	
5	Black
9	Grey

LED Colors Option				
2 LEDs				
Led 1	Led 2			
1	1			Red
2	2			Yellow
3	3			Green
7	7			Blue
4 LEDs				
Led a	Led b	Led c	Led d	
1	1	1	1	Red
2	2	2	2	Yellow
3	3	3	3	Green
7	7	7	7	Blue

*Repeat the code for the following LED(s)

Dimension (SP86L)



How to order (SP86L)

SP86L — [] — [] — [] — []

CAP Styles	
Small CAP	
A0	Without LED
A1	One-LED
A2	Two-LED
Large CAP	
B0	Without LED
B1	One-LED
B2	Two-LED

CAP Colors	
5	Black
9	Grey

LED Colors	
00	Without LED
One LED	
01	Red
02	Yellow
03	Green
07	Blue
2 LEDs	
Left	Right
1	1
2	2
3	3
7	7
Red	Red
Yellow	Yellow
Green	Green
Blue	Blue

EXAMPLE : SP86L-B2-9-12