



# KSD-SP86N(L) Series

Pushbutton Switches

## KSD SWITCH CONNECTOR



KSD-SP86N(L)  
Pushbutton Switches

### SPECIFICATIONS

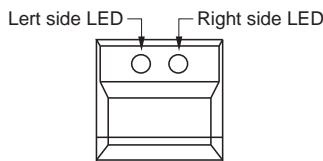
- Circuit:** SPDT
- Current rating:** 12mA.
- Voltage rating:** 24 V DC
- Contact resistance:** 50 m Ohm Max(initial)
- Insulation resistance:** 100M Ohm Min
- Operating force:** 170gf±50gf
- Total travel:** 2.5mm±0.5mm
- Mechanical life:** 1,000,000 cycles Min.  
Latching type: 500,000 cycles Min.
- Solder specifications:** 260 deg for 3 seconds
- Operating temperature:** -10 deg~+60 deg

### MATERIALS

- Cap:** Acrylonitrile butadiene styrene(ABS)
- Case:** Polyamide(PA)
- Fixed support:** Stainless steel wire
- Latching pin:** 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

## HOW TO ORDER

MODEL NO.	CAP STYLES	CAP COLORS	LED COLORS
SP86N (Momentary) SP86L (Latching)			
A0 A1 A2	Small CAP Without LED One-LED Two-LED	1 Red 2 Yellow 3 Green 4 White 5 Black ** 6 Orange * 7 Blue 9 Gray **	00 Without LED One-LED 01 Red 02 Yellow 03 Green 07 Blue
B0 B1 B2	Large CAP Without LED One-LED Two-LED	* "6" Orange Non-often prepared goods ** "5" Black and "9" Gray are only available for SP86L model type	Left Right 11 Red Red 12 Red Yellow 13 Red Green 17 Red Blue 21 Yellow Red 22 Yellow Yellow 23 Yellow Green 27 Yellow Blue 31 Green Red 32 Green Yellow 33 Green Green 37 Green Blue 71 Blue Red 72 Blue Yellow 73 Blue Green 77 Blue Blue

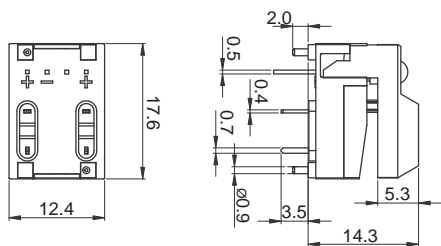


EXAMPLE: KSD-SP86N-B1-1-01  
KSD-SP86L-B2-9-12

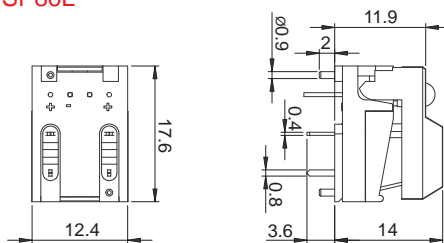


## ▼ DIMENSION

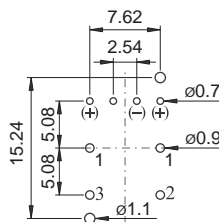
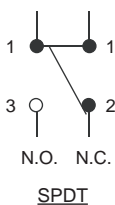
SP86N



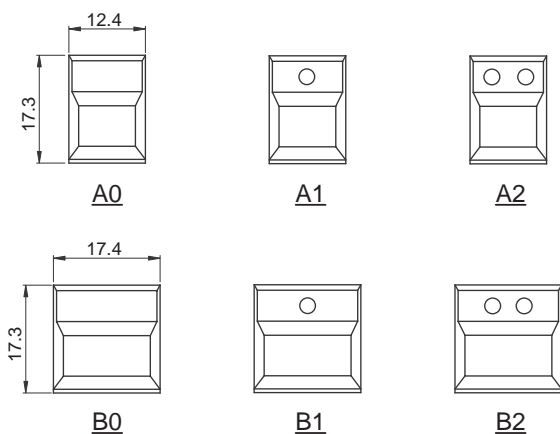
SP86L



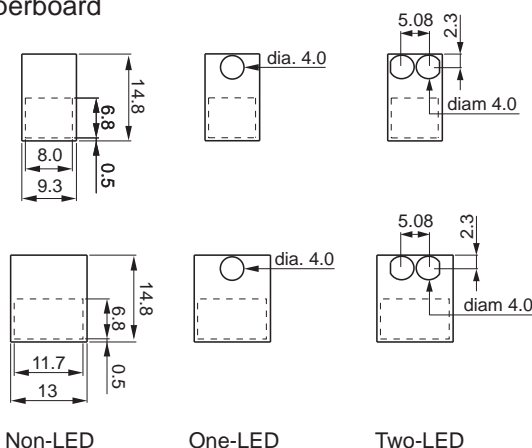
## ▼ CIRCUIT & PCB LAYOUT



## ▼ CAP STYLE



### Paperboard



Note: □ wire area

## ▼ LED CHARACTERISTICS

The electrical specifications shown are determined at a basic temperature of 25 C. If the source voltage exceeds the rated voltage of LED, a ballast resistor must be connected in series with the LED.

Parameter	Symbol(Unit)	Red	Yellow	Green	Blue
Forward Voltage	$V_F(V)$	2.0	2.1	2.2	3.5
Forward Current	$I_F(mA)$	20	20	20	20
Permissible loss	$P_D(mW)$	80	80	80	120
Luminous Intensity	$I_V(mcd)$	60	50	60	600
peak Wave Length	$\lambda_P(nm)$	635	585	568	470
Reverse Voltage	$V_R(V)$	5			
Reverse Current) $V_R=5V$	( $\mu A$ )	100			
Soldering Temperature	(degree)	260 for 5 seconds			



Attention: LED are electrostatic sensitive devices

