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Illuminated Tactile Switches Series **SPL12**



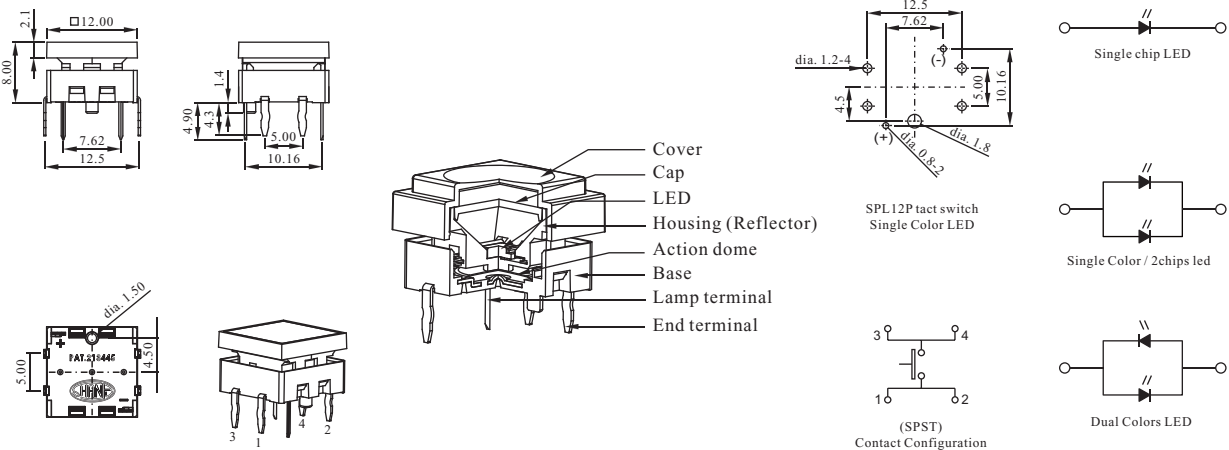
General Specifications

Circuit	:SPST
Current Rating	:50mA @ 12VDC
Contact Resistance	:100mOhm Max. (initial)
Insulation Resistance	:100MOhm Min.
Operating Force	:300gf ±50gf
Total Travel	:0.3mm±0.1mm
Operating Life	:5,000,000 cycles Min.
Operating Temperature	:-25 deg.~+60 deg.
Solder Specifications	:260 deg. for 3 seconds

Materials

Cover	:Polycarbonate (PC)
Cap	:Polycarbonate (PC)
Housing	:Polycarbonate (PC)
Base	:Polyamide (PA)
Lamp Term.	:Phosphor bronze (PBS) with gold plating
Act. Dome	:Phosphor bronze (PBS) with silver plating
End Term.	:Brass with gold plating
LED	:Surface Mount Chip LED

SPL12P Illuminated tactile switch



Dimension unit in mm

SPL12P (Illuminated Tactile Switch) How to Order

SPL12

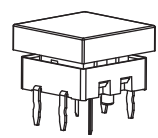
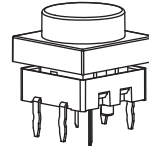
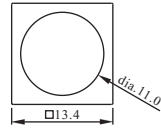
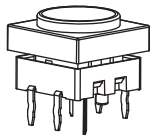
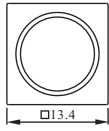
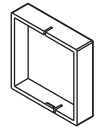
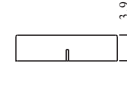
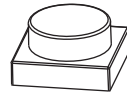
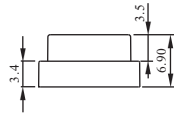
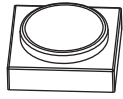
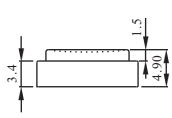
Function Code	Cap Colors	LED Colors	Cover style / Color
P Illuminated Switch	1 Red 2 Yellow 3 Green 4 White 5 Transparent 6 Orange 7 Blue	01 Red S2S Super Yellow 03 Green S3 Super Green P3S Pure Green(single) 4S White (single) 7S Blue (single) 17 Red/Blue 1P3 Red/Pure Green P37 Pure Green/Blue	00 Without Cover FC Flat/clear RC Round h=4.9mm/clear RH Round h=6.9mm/clear SC Square h=4.9mm/clear SH Square h=6.9mm/clear UT UP Triangle/clear DT Down Triangle/clear RT Right Triangle/clear LT Left Triangle/clear C4 Flat cover/white C5 Flat cover/Foggy B4 Raised cover/white

"**" not standard type please inquire first

"B4" type not available

EXAMPLE : SPL12P-2-02-FC
Illuminated tact switch PCB type - Yellow cap - Yellow led-Flat cover

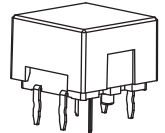
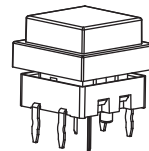
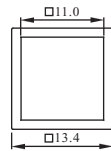
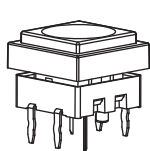
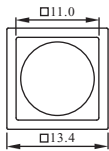
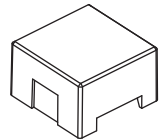
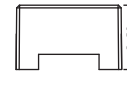
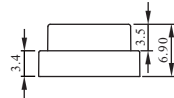
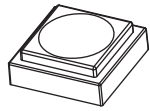
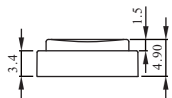
SPL12 Series Accessory-Cover style



Round Cover(RC)
h=4.9mm

Round Cover(RH)
h=6.9mm

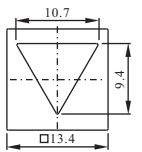
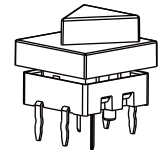
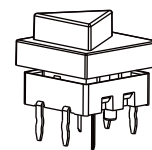
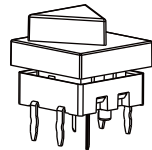
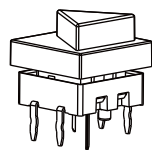
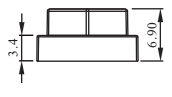
Flat Cover(FC)



Square Cover(SC)
h=4.9mm

Square Cover(SH)
h=6.9mm

Flat cover(white C4 or clear C5)

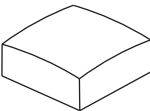
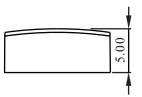


UP Triangle(UT)

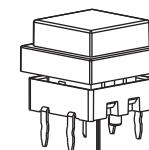
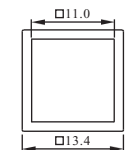
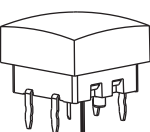
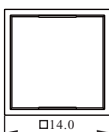
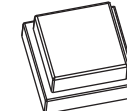
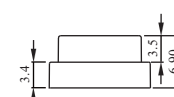
Down Triangle(DT)

Right Triangle(RT)

Left Triangle(LT)

























斜口

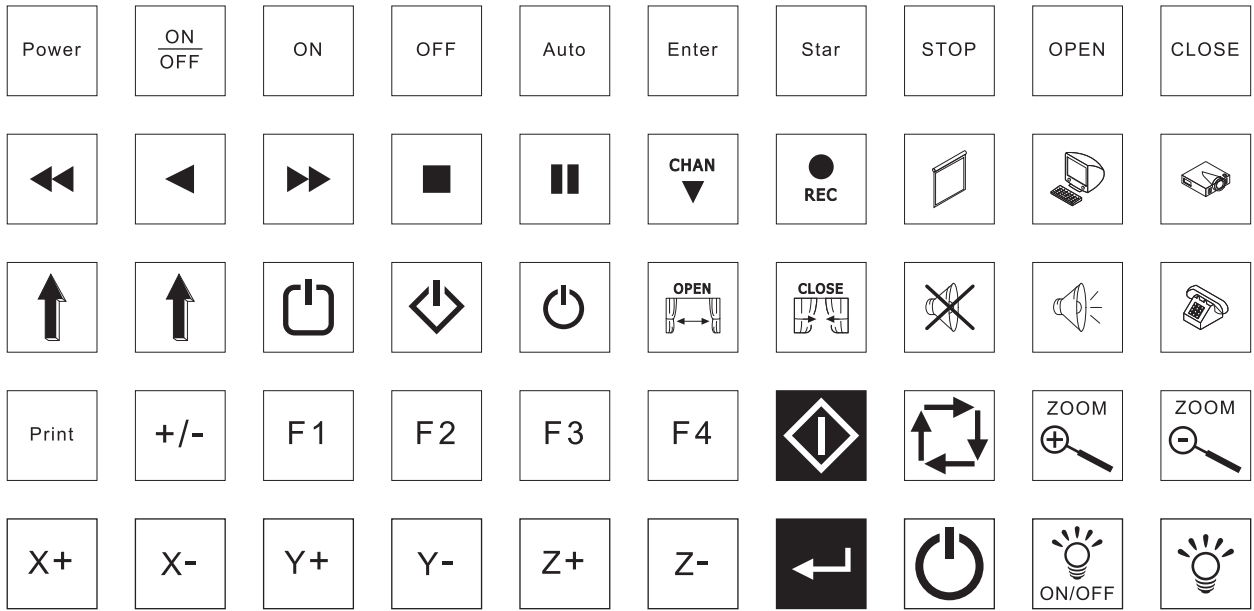


Raised cover(white B4)

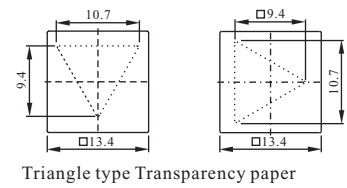
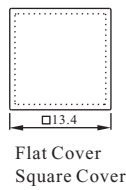
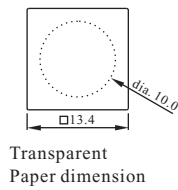
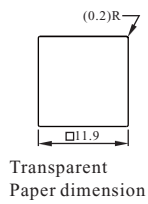
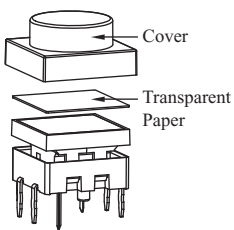
Square Cover(SH)
h=6.9mm

1	2	3	4	5	6	7	8	9	0
A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	Power	ON OFF	ON	OFF
		Auto	Enter	Star	STOP	OPEN	CLOSE	Exit	Move

SET	Reset	Light	Alarm	Menu	Next	Back	Delete	Motor	Save
Up	Down	Right	Left	Test	End	Insert	Lock	Print	+/-
F1	F2	F3	F4	+	-	×	÷	=	←
									
									



How to Build your own Transparency Paper



the dotted line area is printable area

Suggested insert Material and thickness: Clear Polyester, 0.2mm max.

Dimension unit in mm

Led Characteristics for SPL12P Illuminated tactile switch

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.

Single color	Forward voltage Vf (V) at If=20mA			Dominant Wavelength λ dom(nm)			Luminous intensity Iv(mcd) at If=20mA			Power dissipation Pd (mW)
	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
Red	--	1.8	2.6	638	643	648	3.7	13	--	60
Super Yellow	--	2.0	2.5	585	590	595	80	125	--	75
Green	2.2	--	2.4	571	--	573	10	--	12	72
Super Green	--	2.0	2.6	566	--	576	18.5	40	--	110
Pure Green	--	3.1	3.6	525	530	535	320	--	--	108
Blue	--	3.1	3.6	460	465	470	40	--	--	108
White	--	3.2	3.8	Chromaticity Coordinates		63	120	--	120	
				X	Y					
				0.26		0.24				
Dual colors										
Red	--	1.8	2.6	638	--	648	28	40	--	65
Blue	--	3.5	4.0	465	--	470	28	50	--	120
Red	--	2.0	2.6	638	--	648	28	50	--	80
Pure Green	--	3.2	3.6	520	--	530	94	180	--	120
Pure Green	--	--	3.8	520	--	530	200	--	300	80
Blue	--	--	3.8	460	--	470	50	--	100	80

Reverse voltage Vr (V) max.	Reverse current Ir (uA) at Vr=5V	Forward current If (mA) max.
5V	100uA	30mA



CAUTION:
LED is static sensitive devices
Not to be handled by unauthorised personnel.



- Notes:**
- 1.LED circuit is isolated and requires external power source.
 - 2.LED an integral part of the switch.
 - 3.Emitting color:±20%
 - 4.Forward voltage:±0.1V
 - 5.Liminous intensity / luminous flux:±20%

Led Characteristics for SPL12I Indicator

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.

Single color	Forward voltage Vf (V) at If=20mA			Dominant Wavelength λ dom(nm)			Luminous intensity Iv(mcd) at If=20mA			Power dissipation Pd (mW)
	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
Red	--	2.0	2.6	627	632	637	--	300	--	80
Yellow	--	2.1	2.6	582	--	592	--	350	--	80
Green	--	2.0	2.6	567	--	577	--	250	--	80
Blue	--	3.5	4.0	470	--	475	--	400	--	120
Dual colors										
Red	--	2.0	2.4	627	632	637	--	120	--	80
Yellow	--	2.1	2.4	582	--	592	--	300	--	100
Red	--	2.0	2.4	627	632	637	--	120	--	80
Green	--	2.0	2.4	567	572	577	--	180	--	110
Red	--	2.0	2.6	582	632	637	--	160	--	80
Blue	--	3.5	4.0	470	--	475	--	300	--	120
Yellow	--	2.0	2.6	--	587	--	--	300	--	100
	--	2.0	2.6	--	570	--	--	180	--	110
Yellow	--	2.1	2.6	582	--	592	--	350	--	80
Blue	--	3.5	4.0	470	--	475	--	300	--	120
Green	--	2.0	2.6	567	--	577	--	180	--	80
Blue	--	3.5	4.0	470	--	475	--	300	--	120

Reverse voltage Vr (V) max.	Reverse current Ir (uA) at Vr=5V	Forward current If (mA) max.
5V	10uA	30mA



CAUTION:
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Not to be handled by unauthorised personnel.



- Notes:**
- 1.LED circuit is isolated and requires external power source.
 - 2.LED an integral part of the switch.
 - 3.Emitting color:±20%
 - 4.Forward voltage:±0.1V
 - 5.Liminous intensity / luminous flux:±20%