

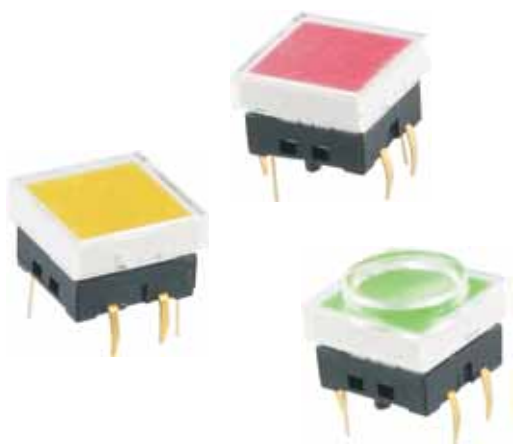
HOW TO ORDER

SPL12P

Cap Colors		LED Colors		Cover style / Color	
1	Red	00	Without LED	00	Without Cover
2	Yellow	01	Red	FC	Flat/clear
3	Green	5V1	Red 5V DC*	RC	Round h=4.9mm/clear
4	White	02	Yellow	RH	Round h=6.9mm/clear
5	Transparent	5V2	Yellow 5V DC*	SC	Square h=4.9mm/clear
6	Orange	S2	Super Yellow	SH	Square h=6.9mm/clear
7	Blue	03	Green	UT	UP Triangle/clear
		5V3	Green 5V DC*	DT	Down Triangle/clear
		S3	Super Green	RT	Right Triangle/clear
		P3	Pure Green*	LT	Left Triangle/clear
		P3S	Pure Green(single)*	C4	Flat cover/white
		04	White*	C5	Flat cover/Foggy
		4S	White (single)*	B4	Raised cover/white
		07	Blue*		
		7S	Blue (single)*		
		17	Red/Blue*		
		1P3	Red/Pure Green*		
		P37	Pure Green/Blue*		

"*" not standard type
please inquire first

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



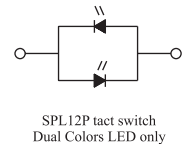
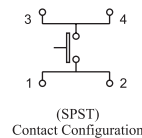
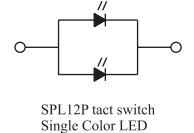
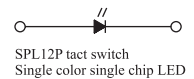
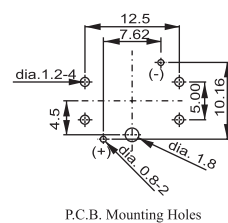
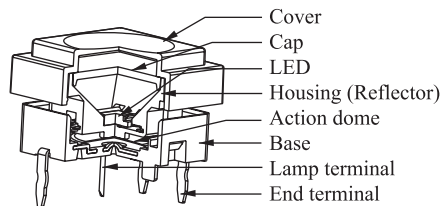
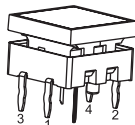
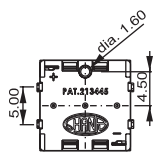
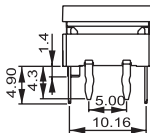
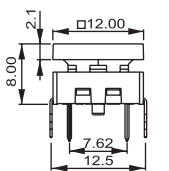
General Specifications

Circuit	:SPST
Current Rating	:50mA @ 12VDC
Contact Resistance	:100mOhm Max.(initial)
Insulation Resistance	:100MOhm Min.
Operating Force	:250gf +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

HOW TO ORDER

SPL12I

Cap Colors		LED Colors		Transparent Cover	
1	Red	01	Red	00	Without Cover
2	Yellow	02	Orange	FC	Flat
3	Green	03	YellowGreen	RC	Round h=4.9mm
4	White	07	Blue	RH	Round h=6.9mm
5	Transparent	12	Red-Orange	SC	Square h=4.9mm
6	Orange	13	Red-YellowGreen	SH	Square h=6.9mm
7	Blue	23	Orange-YellowGreen	UT	UP Triangle
		71	Blue-Red	DT	Down Triangle
		73	Blue-YellowGreen	RT	Right Triangle
				LT	Left Triangle

EXAMPLE : SPL12I-4-12-RH
12*12 Indicator-White cap - Red-Yellow LED-RH type cover



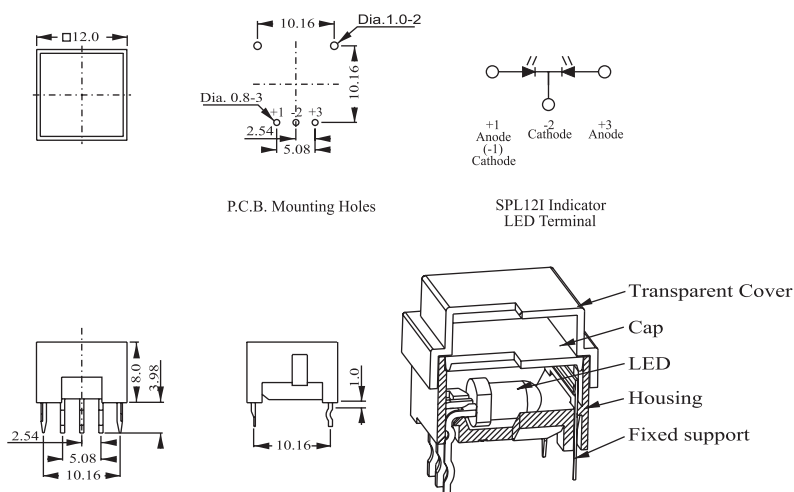
General Specifications

The source of Indicator using 3mm diameter LED, it provide low rating votage and amp, long operation life and high performance.

Materials

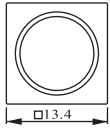
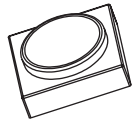
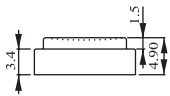
Cap :Polycarbonate (PC)
Base :Polycarbonate (PC)
Cover :Polycarbonate (PC)
Fixed supprot :Brass with Tin plating
LED :3mm Diameter LED Lamp

SPL12I Indicator

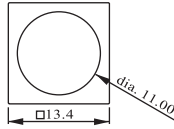
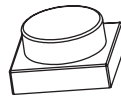
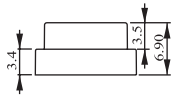
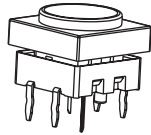


LED's color Terminal Position	
Single Color	
Red	23
Orange(Yellow)	23
Yellow Green(Green)	23
Blue	13
Dual Colors	
Red-Orange(Yellow)	23-21
Red-Yellow Green(Green)	23-21
Orange-YellowGreen(Green)	23-21
Blue-Red	23-21
Blue-YellowGreen(Green)	23-21

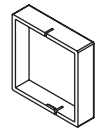
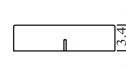
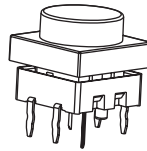
ACCESSORY - COVER STYLE



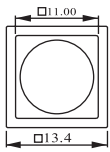
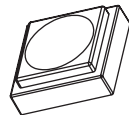
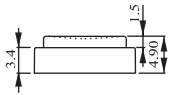
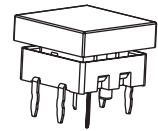
Round Cover(RC)
h=4.9mm



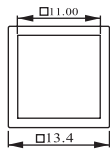
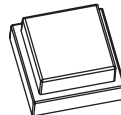
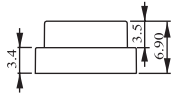
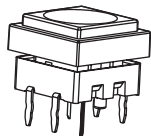
Round Cover(RH)
h=6.9mm



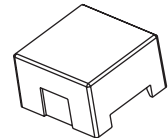
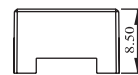
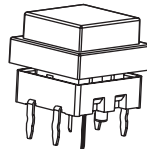
Flat Cover(FC)



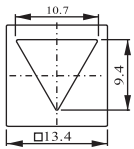
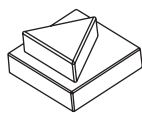
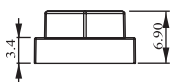
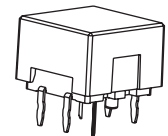
Square Cover(SC)
h=4.9mm



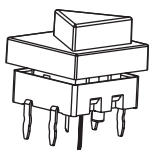
Square Cover(SH)
h=6.9mm



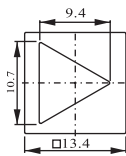
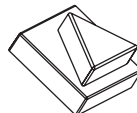
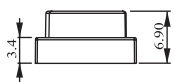
Flat cover(white C4 or clear C5)



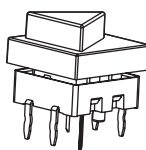
UP Triangle(UT)
Down Triangle(DT)



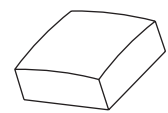
UP Triangle(UT)



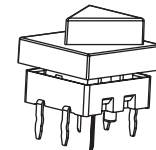
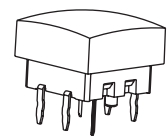
Right Triangle(RT)
Left Triangle(LT)



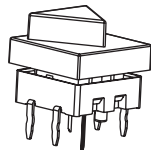
Right Triangle(RT)



Raised cover(white B4)



Left Triangle(LT)



Down Triangle(DT)

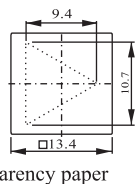
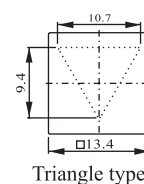
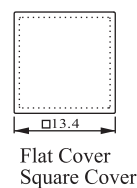
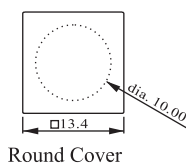
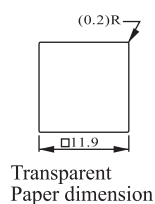
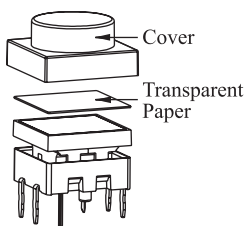
ACCESSORY - TRANSPARENCY PAPER

	0	1	2	3	4	5	6	7	8	9
A	0	1	2	3	4	5	6	7	8	9
B	A	B	C	D	E	F	G	H	I	J
C	K	L	M	N	O	P	Q	R	S	T
D	U	V	W	X	Y	Z	Power	ON OFF	ON	OFF
E			Auto	Enter	Star	STOP	OPEN	CLOSE	Exit	Move
F	SET	Reset	Light	Alarm	Menu	Next	Back	Delete	Motor	Save
G	Up	Down	Right	Left	Test	End	Insert	Lock	Print	+/-
H	F1	F2	F3	F4	+	-	×	÷	=	
I										
J										

Example : E0
Transparency Paper the image on the position "E0" is



HOW TO BUILD YOUR OWN TRANSPARENCY PAPER



the dotted line area is printable area

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

ED BATTERIES

for SPL12P Illuminated tactile switch

The electrical specifications shown are determined at a basic temperature of 25°. 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 V_f (V) at 20mA	Forward Current I_f (mA)	Reverse Voltage V_r (V)	Reverse Current I_r (uA) at $V_r=5V$
bi-Red bi-Yellow bi-Super Yellow bi-Green bi-Super Green bi-Pure Green bi-Blue bi-White	1.8~2.6 2.1~2.6 2.1~2.6 2.2~2.6 2.0~2.6 3.2~3.6 3.5~4.0 3.2~3.8	Typical 20mA 30 mA max.	5V	100uA max.
Single color build in resistor for 5 V DC	5V DC max.			
bi-Red 5V DC bi-Yellow 5V DC bi-Green 5V DC		Typical 7mA 12 mA max.		
Bicolor LED		Typical 20mA 30 mA max.	5V	100uA max.
Red & Blue	Red 1.8~2.6 Blue 3.5~4.0			
Red & Pure Green	Red 1.8~2.6 Pure Green 3.2~3.6			
Pure Green & Blue	Pure Green 3.2~3.6 Blue 3.5~4.0			



Attention: LED are electrostatic sensitive devices +



for SPL12P Illuminated tactile switch

The electrical specifications shown are determined at a basic temperature of 25°. 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 V_f (V) at 20mA	Forward Current I_f (mA)	Reverse Voltage V_r (V)	Reverse Current I_r (uA) at $V_r=5V$
Red Yellow Green Blue	2.0~2.6 2.1~2.6 2.0~2.6 3.5~4.0	30 mA max.	5V	100uA
Bicolor LED				
Red & Yellow	Red 2.0~2.4 Yellow 2.1~2.4	30 mA max.	5V	100uA
Red & Green	Red 2.0~2.4 Green 2.0~2.4			
Red & Blue	Red 2.0~2.6 Blue 3.5~4.0			
Yellow & Green	Yellow 2.0~2.6 Green 2.0~2.6			
Yellow & Blue	Yellow 2.1~2.6 Blue 3.5~4.0			
Green & Blue	Green 2.0~2.6 Blue 3.5~4.0			



Attention: LED are electrostatic sensitive devices +

