

# OLED Push Button Switch SLC



### Feature

- I2C interface
- 0.42" High resolution OLED display
- Mechanical push button switch
- Smooth and Silent operation
- Switch Long operating Life
- OLED module keycap available for replace

### Application

- Industrial equipment
- Pro-Audio & Pro-Video
- Machine tool
- Medical equipment
- Robot
- Transportation
- 3C
- High-end Technology



### General Description

Combination mechanical button switch and OLED display.  
Control OLED display through I2C protocol interface.

### SWITCH

Switch circuit :SPST-NO (dual contact point)  
Switch contact rating :100mA @ 12V DC max  
Contact Resistance :100m Ohm (initial)  
Insulation Resistance :100M Ohm Min.  
Operating Force :200gf ± 50gf  
Total Travel :4.5mm ± 0.50mm  
Mechanical Life :5,000,000 cycles Min.  
Function :Momentary(SPST)  
Solder Specifications :260 °C for 3 seconds  
Operating Temperature :-40°C ~ +80 °C

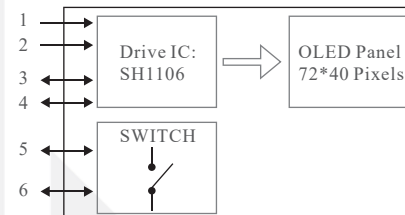
### OLED

Oled type :White & Black  
Driver IC :SH1106  
Interface :I2C  
Drive duty :1/40 duty  
Display Format :72\*40 Pixels  
Input voltage :3.3V  
Active Area :9.2(W)mm\*5.2(H)mm  
Dot Size :0.108(W)mm\*0.11(H)mm  
Dot Pitch :0.128(W)mm\*0.13(H)mm  
Life time (450cd/m<sup>2</sup>) :1,500 hour

### MATERIALS

Cap :Acrylonitrile Butadine Styrene (ABS)  
Lens :Polycarbonate (PC)  
Reflector :Polyoxymethylen (POM)  
Base :Polyamide (PA)  
Moving contact :Phosphor Bronze with gold plating  
Terminal Spring :Brass with gold plating  
Spring :SUS

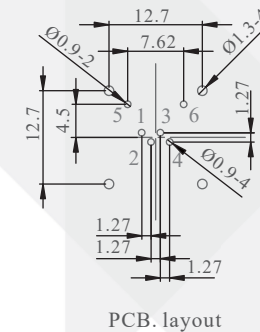
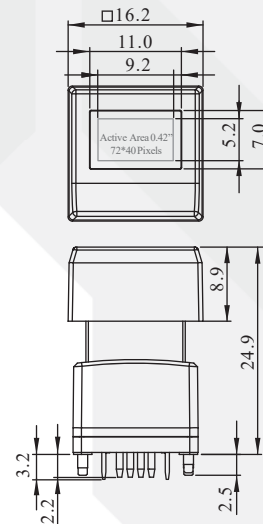
### Contact configuration



Pin	Name	Function	Level
1	GND	Ground for System.	0V
2	VDD	Power Supply for System	3.3V
3	SCL	I2C bus clock signal	H/L
4	SDA	I2C bus data signal	H/L
5	SW.COM.	Switch Common	
6	SW.NO.	Switch Normal Open	

### Dimension

P/N : SLC1TACY5



PCB. layout

### Option



Adapter: YPC073

