GYL INDIA

Temperature Range		
Description	TEST CONDITIONS	REQUIREMENT
Operating Temperature Range	-25℃ ~+55℃	

Test Circumstance Condition		
Description	TEST CONDITIONS	REQUIREMENT
Ambient temperature	25℃ ± 5℃	
Relative humidity	45%~85%	
Air pressure	102KPa	

Appearance, Structure and Dimension		
Description	TEST CONDITIONS	REQUIREMENT
Appearance	Nice appearance; Free from Rust, Scratch, Bad plated, Denude; Smooth action, Clear conversion。	

Structure and Dimension		
Description	TEST CONDITIONS	REQUIREMENT
Rating	2A 48VDC or 5A 250VAC	

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Mechanical Performance		
Description	TEST CONDITIONS	REQUIREMENT
Operating Force	Vertical placing the switch with the direction of switch operation, then gradually increasing the force, measure demanded maximum force that switch continuity.	
Terminal Strength	Enforce push-inward static 40N load on the top of terminal, lasting 60 seconds	No damage, leafing, switch function action is normal.
Solder-Ability	Immerse the terminal to the molten solder tank, temperature reach to 235±5℃,time reach to 2±0.5 seconds	90% of the surface will be covered by solder.
Soldering resistance test	Manual iron welding: welding temperature: 350±5℃,welding time: 2±0.5 seconds. When welding, can't enforce anomaly pressure on the terminal.	Without deformation of base, can satisfy mechanical, electronic performance.

Electronic Performance		
Description	TEST CONDITIONS	REQUIREMENT
Contact resistance	Being measured at 1KHz small current.	50mΩ MAX.
Insulation resistance	Measurement shall be made enforcing DC500V between terminals and between terminals and frame for 1 minute.	100MΩ MIN.
Withstand voltage	Enforce AC1500V, 0.5mA between pole and pole in 1min ,enforce AC1000V , 0.5mA between pole and frame in 1min	No breakdown.

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Durability		
Description	TEST CONDITIONS	REQUIREMENT
Mechanical life	Operating 500,000 cycles at a rate of 30cycles per minute	Appearance, Action & Function Normal
Electrical life	Operating ≥ 50,000 cycles at a rate of 30cycles per minute under rate loading on conaition that the voltage is 48VDC and the current is 2A	Withstand voltage ≥1500VAC/1min

CONTACT INFORMATION

GYL TECHNOVATIONS
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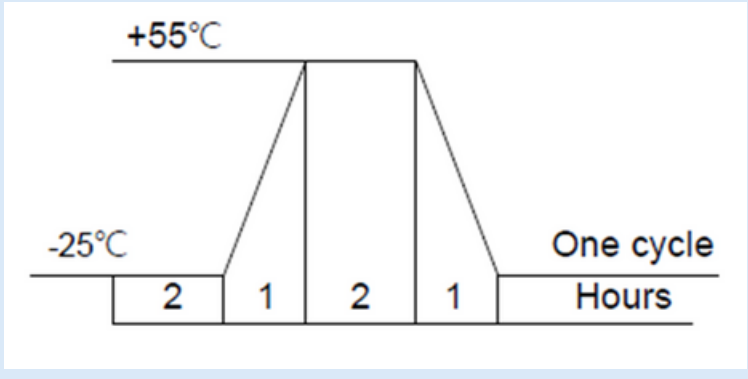
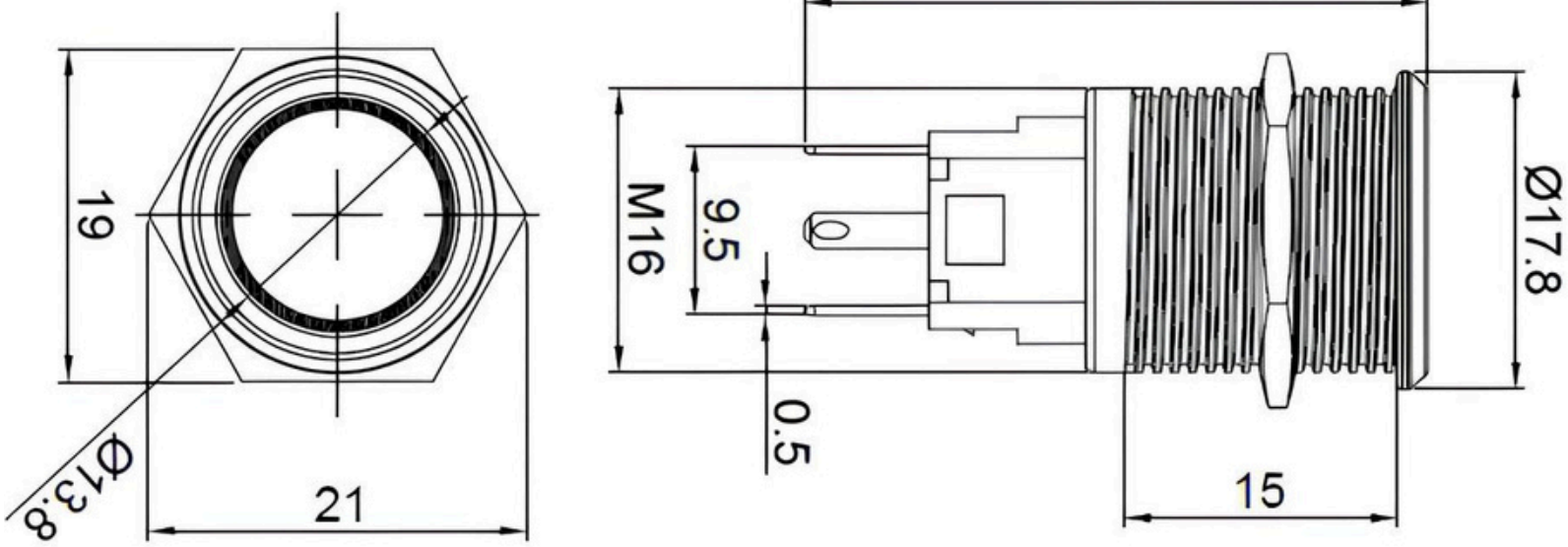
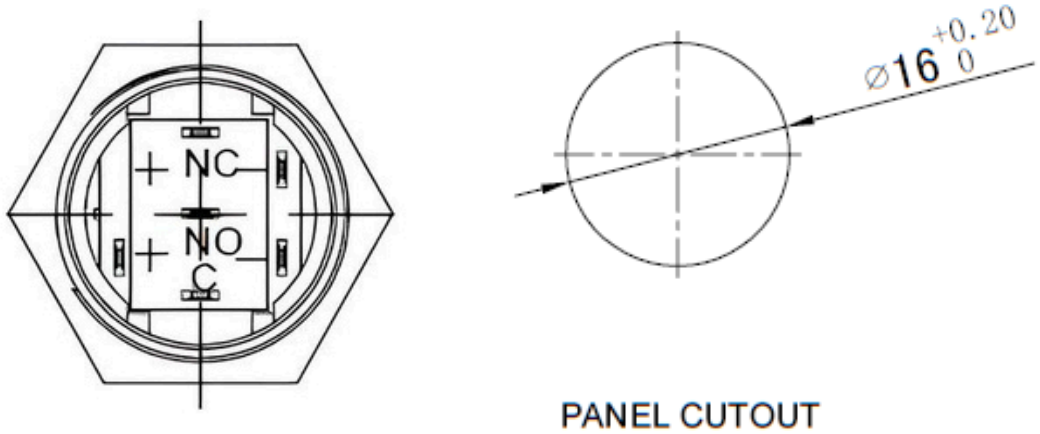
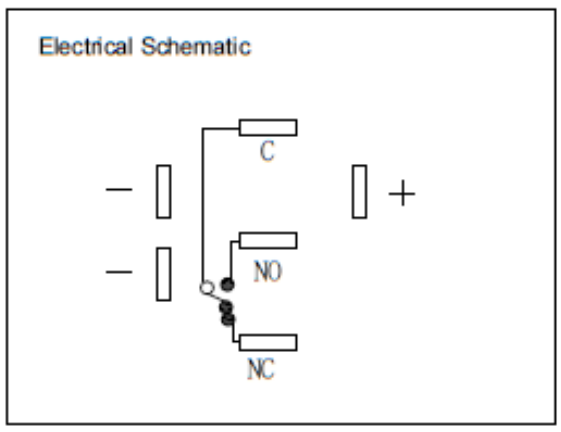
Weather Ability		
Description	TEST CONDITIONS	REQUIREMENT
Heat test	Putting at 55±2 ℃ for 72 hours. Test after keeping in normal condition for 60 minutes.	Contact resistance 50mΩ MAX.
Anti-humid test	Putting at 40 ± 2 ℃ , 91%~95%RH for 96 hours. Test after keeping in normal condition for 60 minutes.	Insulation resistance 100MΩ MIN.
Anti-low temperature test	Putting at -25±3 ℃ for 16 hours. Test after keeping in normal condition for 60 minutes.	Withstand voltage 1500VAC,0.5mA,5S No breakdown.
Temperature cycling test	In FIG. For 5 cycles, test after kept in normal condition for 30 minutes 	No sign of damage mechanical and electronic performance.
Storage		Should be stored in where the ambient temp is -10℃ ~ 40℃, Relative humidity ≤ 80%, and no acid, alkaline or other corrosive gases nearby

Dimensions





PANEL CUTOUT
MAX.PANEL THICKNESS
13mm



Specifications
Function: Alternate (Latching)
Contact Arrangement: SPDT 1NO1NC
Mounting Type: Threaded Front Panel Mount
Torque For Threaded Body: 5-14Nm

Mechanical
Operating Life: ≥ 500,000 Cycles
Total Travel: About 3.0mm
Operating Force: 3.5±1N

Electrical
Contact Rating: 5A 250VAC ; 10A 125VAC
2A 48VDC; 10A 12VDC
Operating Life: ≥50,000 Make-and-Break Cycles at Full Load
Dielectric Strength: 2,000V RMS @Sea Level
Insulation Resistance: 1,000MΩ Min @500VDC
Contact Resistance: 50mΩ max

Materials
Bushing: Stainless Steel / Brass Nickel Plated / Aluminum Alloy
Base: PBT (UL94-V0)
Actuator: Stainless Steel / Brass Nickel Plated / Aluminum Alloy
Internal Assembly: POM/PA66
Spring: Steel
Sealing/O-Ring: Silicone
Terminals: Brass with Gold Plated
Contact: Copper Silver Plated

Operating Environment
Operating Temperature: -25 ℃ to +55℃
Sealing/Protection: IP65