



| Temperature Range           |                 |             |
|-----------------------------|-----------------|-------------|
| Description                 | TEST CONDITIONS | REQUIREMENT |
| Operating Temperature Range | -25°C ~+55°C    |             |

| Test Circumstance Condition |                 |             |
|-----------------------------|-----------------|-------------|
| Description                 | TEST CONDITIONS | REQUIREMENT |
| Ambient temperature         | 25°C ± 5°C      |             |
| 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 |             |

| 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°C,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°C,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. |



| 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 $\geq 50,000$ 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 $\geq 1500$ VAC/1min |

## CONTACT INFORMATION



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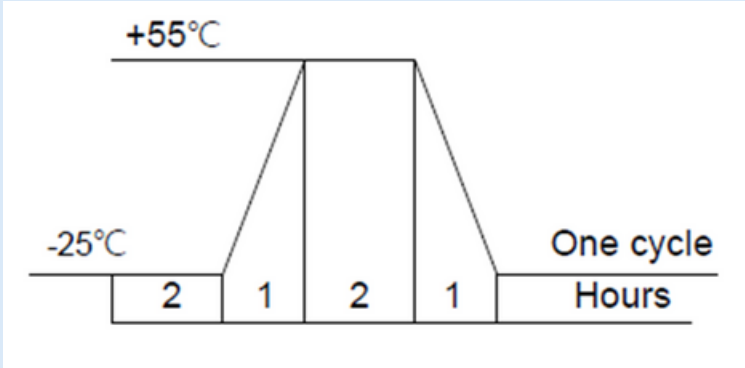
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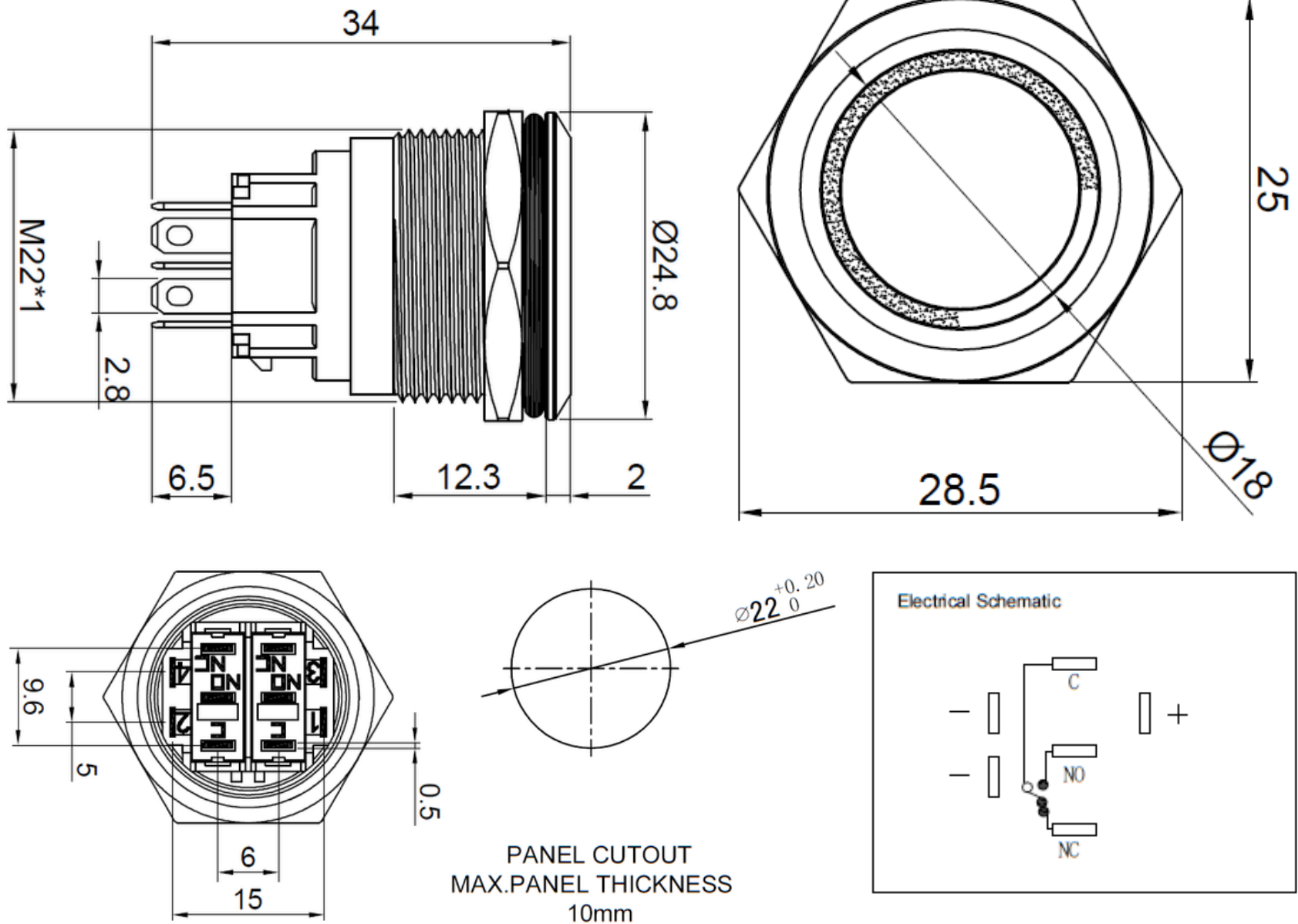
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| Weather Ability           |                                                                                                                                                                                     |                                    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

# DIMENSIONS



## Specifications

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

## Mechanical

Operating Life:  $\geq 500,000$  Cycles  
Total Travel: About 3.0mm  
Operating Force:  $3.5 \pm 1$ N

## Electrical

Contact Rating: 5A 250VAC ; 10A 125VAC  
2A 48VDC; 10A 12VDC  
Operating Life:  $\geq 50,000$  Make-and-Break Cycles at Full Load  
Dielectric Strength: 2,000V RMS @Sea Level  
Insulation Resistance: 1,000M $\Omega$  Min @500VDC  
Contact Resistance: 50m $\Omega$  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 °C to +55°C  
Sealing/Protection: IP65