

# MODEL NAME: SR25 SERIES

## 1. TEST CONDITIONS

Standard test conditions shall be 5–35°C in temperature and 45–85%RH in humidity.  
Should any doubt arise in judgment test shall be conducted at 20±2°C and 65±5%RH.

## 2. OUTSIDE DIMENSION

Append drawing.

## 3. MECHANICAL PERFORMANCE

Item	Test Condition	Specification
3.1 Operating force	Operation temperature: -10°C~+70°C Storage temperature: -40°C~+85°C	1.0±0.5 kgf.cm
3.2 Control strength	A static load of 1000 gf.cm shall be applied in the operating direction and tensile direction of the unit for one minute.	N/A
3.3 Terminal strength	A static load of 1000 gf.cm shall be applied to the tip of the terminal in a desired direction for one minute. The number of tests shall be one per terminal.	N/A
3.4 Control wobble	Shall be measured by applying a static load of 100 gf.cm to the tip of control unit.	Less than 1 mm
3.5 Soldering	Regarding preheating, the entire flow duration should not exceed 2 minutes, and soldering surface temperature (undersurface of PCB) shall be settled within 100°C. Temperature of solder 260±5°C Duration of dipping 4±0.5 seconds.	More than 90% of the dipped part shall be covered by solder
3.6 Soldering heat resistance	Flow soldering condition: to be performed in 4±0.5 seconds Max within 260±5°C Manual soldering condition: to be performed in 3±0.5 seconds Max within 350±5C	No abnormalities shall be observed in appearance and operation shall be assured.

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Item	Test Condition	Specification
3.7 Shaft stopper strength	N/A	More than 5 kgf.cm
3.8 Bushing mount strength	N/A	9 kgf.cm MIN.

## 4. ELECTRICAL PERFORMANCE

Item	Test Condition	Specification
4.1 Rating	N/A	DC 30V 0.3A AC 125V 0.3A
4.2 Contact resistance	Shall be measured at 1KHz±200Hz (Max 20mV,Max 50mA)or 5V DC, 1A by a voltage drop method.	Less than 50mΩ
4.3 Insulation resistance	Shall be measured by applying 500V DC,between all terminals and between the terminal and the frame for 1 minute ±5sec.	More than 100MΩ
4.4 Withstand voltage	500V AC(50~60Hz,2mA) shall be applied between all terminals and the frame for 1 minute ±5sec.	

## 5. DURABILITY

Item	Test Condition	Specification
5.1 Operating life under no load	10,000 cycles of operation shall be performed continuously at a rate of 15~20 cycles per minute without load After operating life test ,shall be in accordance with the following specifications	Contact resistance: less than 200mΩ Insulation resistance: more than 50MΩ Withstand voltage: 250V AC per 1 minute Operating force: less than +10%~-30% for initial operating force
5.1 Operating life under load	10,000 cycles of operation shall be performed continuously at a rate of 15~20 cycles per minute with resistive load of AC 125V 0.3A After operating life test ,shall be in accordance with the following specifications	Contact resistance: less than 500mΩ Other specifications are same as operating life under no load

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