

MODEL

# ROTARY SWITCH SPECIFICATION

SPEC NO:

SR09

DATE:

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# Ninigi

## 1. General specification

1.1 Operating temperature range -20 ~ +70 °C (normal humidity normal press).

1.2 Test conditions

1.2.1 Ambient temperature 5°C~30°C

1.2.2 Relative humidity 25% to 85%

1.2.3 Air pressure 86 Kpa~106 Kpa

1.3 Appearance, Structure and Dimension

1.3.1 Appearance

There should be no defects that affect the serviceability of product

1.3.2 Structure and Dimension

Style and dimension: Shall conform to the assembly drawings

1.4 Switch Rating: DC24 V 0.5 A ; DC 48 V 0.2 A

## 2. Mechanical characteristics

Item	Test Condition	Requirements
2.1	Operation torque Fixed product, fastening with a torque meter on the shaft counter-clockwise in the end. The pointer to zero, in clockwise rotation in the end	350± 150 gf.cm
2.2	Switch type	1 pole 3 position

## 3. Electrical characteristics

3.1	Contact Resistance	Rating: DC 5V Current: 1 A	100mΩ or less
3.2	Insulation resistance	Measurements shall be made following application of <u>DC 500</u> V potential across terminals and across terminals and frame for one minute.	100MΩ or more
3.3	Dielectric strength	AC 500 V (50~60Hz) shall be applied across terminals and across terminals and frame for one minute.	There shall be no breakdown.

## 4. Environmental resistance.

4.1	Resistance to low temperatures	stored on -20 ± 3°C after 96 hours in the refrigerator, in the standard atmosphere for 1 hour, then measured in 1 hour	There shall be no deformation or cracks in molded part.
4.2	Dry heat	On 70 ± 3 °C storage temperature tank after 96 hours, in the standard atmosphere for 1 hour, then measured in 1 hour	There shall be no deformation or cracks in molded part.
4.3	Constant hot and humid	Placed in the temperature of the primary is 40 ± 2 °C, relative humidity of 90-95% of the environment, 96 hours and then placed in a standard atmosphere for 1 hour, 1 hour for the next measurement	There shall be no deformation or cracks in molded part.
4.4	Solderability test	The top of the terminals shall be dipped 2mm in the solder bath of 350±5°C for 3±1 seconds.	The area of soldering should be over 75%.

## 5. Endurance.

5.1	Operating life	Increase the load life test, rotation speed of 30 beats / min (back and forth 1 back 1 count), 2,000 turns the total rotation	The following 200mΩ contact resistance
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## 6. Soldering conditions.

6.1	Hand soldering	Please practice according to below conditions: (1) Soldering temperature : 350°C Max (2) Continuous soldering time: 3 s Max (3) Capacity of soldering iron : 20 w Max	There shall be no deformation or cracks in molded part.
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