

Rotary Switch (Band Switch)

1. Test Condition :

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. Electrical Performance :

ITEM	Test condition	Specifications
Rating	N/A	AC 125V 0.3A DC 30V 0.3A
Contact resistance	Shall be measured at 1KHz±200Hz (Max 20mV,Max 50mA)or 5V DC, 1A by a voltage drop method.	50mΩ max.
Insulation resistance	Shall be measured by applying 500V DC, between all terminals and between the terminal and the frame for 1 minute ±5sec.	DC 500V 100MΩmin
Withstand voltage	500V AC(50~60Hz,2mA) shall be applied between all terminals and the frame for 1 minute ±5sec.	500V 1 minute

3. Mechanical Performance :

ITEM	Test condition	Specifications
Operating force	Operating temperature : -10°C~+70°C Storage temperature : -40°C~+85°C	1.0±0.5 kgf.cm
Control wobble	Shall be measured by applying a static load of 100 gf.cm to the tip of control unit.	Less than 1mm
Shaft stopper strength	N/A	More than 5 kgf.cm
Bushing mount strength	N/A	9 kgf.cm MIN.
Soldering	Regarding preheating, the entire flow duration should not exceed 2 minutes, and soldering surface temperature (undersurface PCB) shall be settled with 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.
Soldering heat resistance	Flow soldering condition : to be performed in 4±0.5 seconds Max within 260±5°C. Manual soldering in 3±0.5 seconds. Max within 350±5°C.	No abnormalities shall be observed in appearance and operation shall be assured.

4. Durability :

ITEM	Test condition	Specifications
Operating life Under no load	10,000 cycles of operating 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.
Operating life Under load	10,000 cycles of operating 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.