



Specifications:

Rating : Non Switching Rating 24V DC 400mA

Switching Rating 24V DC 150mA

 $\begin{array}{lll} \mbox{Life} & : 10,000 \mbox{ Steps} \\ \mbox{Operating Force} & : 400 \mbox{gf.cm Max.} \\ \mbox{Initial Contact Resistance} & : 100 \mbox{m} \Omega \mbox{ Max.} \\ \mbox{Dielectric Strength} & : AC 250 \mbox{V 1 minute} \end{array}$

Insulation Resistance : 100MΩ Min. (DC 250V Megger)

Operating Temperature : -60°C to +125°C

Style:

This specification describes "Rotary Switch" mainly used as signal switch of electric devices with the general requirements of mechanical and electrical characteristics.

1.1 Operating Temperature Range : -60°C to +125°C
1.2 Storage Temperature Range : -60°C to +125°C
1.3 The shelf life of product is within 6 months.

2. Current Range:

2.1 Non-Switching : 400mA, 24V DC 2.2 Switching : 150mA, 24V DC

3. Type of Actuation : Rotating

Test Sequence

Performance	Description	Test Conditions	Requirements				
	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product.				
Electric	Contact Resistance	To be measured between the two terminals associated with each switch pole. Measurements shall be made with a 1kHz shall current contact resistance meter.	1. 80mΩ max. (initial)				
Performance	Insulation Re- sistance	250V DC, 1 minute ±5 seconds.	100MΩ min.				
	Dielectric with- standing Voltage	250V AC (50Hz or 60 Hz) shall be applied between all the adjacent terminals and between the terminal and the frame for 1 minute.	There shall be no breakdown or flashover.				
	Capacitance	5pF max.					
Mechanical Performance	Operation Force	Applied in the direction of operation.	400gf·cm Max (3.92N·cm Max)				
	Stop Strength	A static load of 1 kgf (9.8N) is applied in the vertical direction operated for a period of 15 seconds.	There shall be no sign of damage mechanically.				





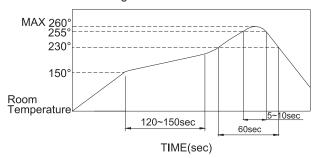
Performance	Description	Test (Requirements			
		1. Soldering Temperatu	ure			
	Soldering Heat Resistance	P.C. Board terminal RBH Series	1. As shown in item 4~6			
		260°C ±5°C	2. Contact Resistance: 200mΩ max.			
		5±1	3. Insulation Resistance:			
		Duration of Solder Ir Frequency of Solder (PCB is 1.6mm in thick)	10MΩ min.			
Mechanical Performance	Vibration	of MIL-STD-202F 1. Frequency: 10-55-1 2. Direction: 3 vertical	directions including the of operation.	A Ditto		
	Shock	Shall be shocked in ac condition A of MIL-STD 1. Acceleration: 50G. 2. Action Time: 11 ±1n 3. Testing Direction: 6 4. Test cycle: 3 times i	Ditto			
	Solderability	1. Soldering Temperatu Lead-Free solder: N (Tin 96.5%, Silver 3 2. Flux: 5-10 seconds. 3. Duration of solder In	No anti-soldering and the coverage of dipping into solder must more than 85% was requested.			
Durability	Operation Life	Measurements shall be forth below: 1. 25mA, 24V DC resis 2. Rate of Operation: 3. Step of Operation:	1. As shown in item 3,4 2. Contact Resistance : 500mΩ max.			
	Resistance Low Temperature	all 1. As shown in item 4~6 2. Contact Resistance: 200mΩ max. 3. Insulation Resistance : 10MΩ min.				
Weather-Proof	Resistance High Temperature	Following the test set for the left in normal temperations for an hour before 1. Temperature: 125°C 2. Time: 96 hours	-			
	Resistance Humidity	Following the test set for the left in normal temperations for an hour before 1. Temperature: 40°C 2. Relative Humidity: 93. Time: 504 hours	Ditto			



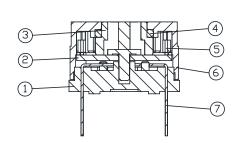
multicomp PRO

Soldering Conditions:

Condition for Soldering - RBM Series

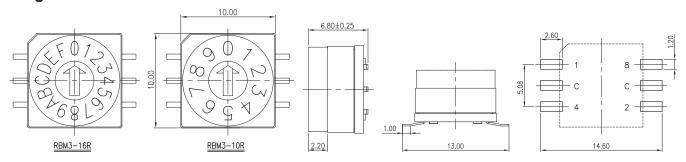


The condition mentioned above is the temperature on the Cu foil of the PCB surface. There are cases where board's temperature greatly differs from switch's surface temperature depending on board's material, size, thickness, etc. Care, therefore, should be used not to allow switch's surface temperature to exceed 260°C.



Item	Description	Materials	Q'TY	Treatment			
1.	Base	High - Temp. Thermoplastic Nylon UL94V - 0		Molded Black			
2.	PCB Contact	FR-4	1	Gold Plated			
3.	Actuator	High - Temp. Thermoplastic Nylon UL94V - 0	1	Molded Grey			
4.	O Ring	Silicone		-			
5.	Spring	Stainless Steel	2	-			
6.	Cover	High - Temp. Thermoplastic Nylon UL94V - 0	1	Molded White			
7.	Terminal	Brass		Gold Plated			

Diagram:



Dimensions : Millimetres





TYPE	CIRCUIT CHARACTERISTICS																
	CODE	POSITION ON															
		0	1	2	3	4	5	6	7	8	თ	Α	В	\circ	Ω	Ε	F
RBM3-10R	1		•		•				•								
INDINIO TOIN	2							•	•								
	4					•		•	•								
	8																
TYPE	CIRC	CIRCUIT CHARACTERISTICS															
	POSITION ON																
	CODE	0	1	2	3	4	5	6	7	8	9	Α	В	\circ	D	Ŧ	F
RBM3-16R	1		•		•		•		•		•		•		•		•
	2			•	•			•	•			•	•			•	•
	4					•	•	•	•					•	•	•	•
	8									•	•	•	•	•	•	•	•

Part Number Table

Description	Part Number
S.M.T; 3×2; 10 STEPS; Flat-head actuator;	RBM2-10RBVR
S.M.T; 3×2; 10 STEPS; Flat-head actuator;	RBM2-10RBVB
S.M.T; 3×2; 10 STEPS; Cross-head actuator;	RBM2-10RAVR
S.M.T; 3×3; 16 STEPS; Flat-head actuator;	RBM3-16RBVB
S.M.T; 3×2; 16 STEPS; Cross-head actuator;	RBM2-16RAVR
S.M.T; 3x2; 16 STEPS; Flat-head actuator;	RBM2-16RBVR
S.M.T; 3×3; 10 STEPS; Cross-head actuator;	RBM3-10RAVB
S.M.T; 3×3; 16 STEPS; Flat-head actuator;	RBM3-16RBVR
S.M.T; 3×3; 16 STEPS; Cross-head actuator;	RBM3-16RAVB
S.M.T; 3×3; 10 STEPS; Flat-head actuator;	RBM3-10RBVB
S.M.T; 3×3; 10 STEPS; Cross-head actuator;	RBM3-10RAVR
S.M.T; 3×3; 10 STEPS; Flat-head actuator;	RBM3-10RBVR
S.M.T; 3×2; 10 STEPS; Cross-head actuator;	RBM2-10RAVB
S.M.T; 3×3; 16 STEPS; Cross-head actuator;	RBM3-16RAVR
S.M.T; 3×2; 16 STEPS; Cross-head actuator;	RBM2-16RAVB
S.M.T; 3×2; 16 STEPS; Flat-head actuator;	RBM2-16RBVB

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