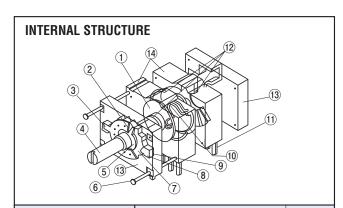


FEATURES

- RoHS compliant
- P.C.B. mounted, compact size and DIP compatible
- Protection by "O" ring (contact block) against dust and for cleaning after soldering
- Precious metal alloy wiping type contacts provide a long life (50000 revolutions at no load) and high reliability. (In house comparison)
- Both shorting and non-shorting types are available

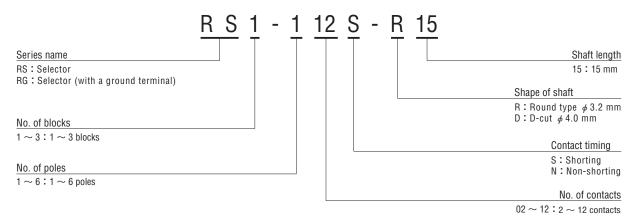


Part name		Material	Flammability
1	Rotor	POM (Polyoxymethylene)	UL94HB
2	Stopper pin	Copper alloy	
3	Stopper pin holder	Copper alloy	
4	Shaft	Copper alloy, Nickel-plated	_
(5)	Stopper ring	Nickel-plated	
6	Linking pin	Copper alloy, Nickel-plated	
7	Click gear	PA (Polyamide)	UL94HB
8	Click plate	POM (Polyoxymethylene)	ОС94ПВ
9	Click spring	SWPA (Piano wire)	
10	Contact spring	Multi metal alloy	_
11)	Terminal pin	Copper alloy, Gold-plated	
12	"O" ring	Silicone rubber	
13	Cover	DDT (Dolyhutylonotoronhtholoto)	UL94HB
14)	Housing	PBT (Polybutyleneterephthalate)	

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PART NUMBER DESIGNATION



* Shaft length of 10 mm or 20 mm is also available.

■ LIST OF PART NUMBERS

No. of blocks	No. of poles	No. of contacts										
		02	03	04	05	06	07	08	09	10	11	12
1	1	RS1-102	RS1-103	RS1-104	RS1-105	RS1-106	RS1-107	RS1-108	RS1-109	RS1-110	RS1-111	RS1-112
'	- 2	RS1-202	RS1-203	RS1-204	RS1-205	RS1-206						
2							RS2-207	RS2-208	RS2-209	RS2-210	RS2-211	RS2-212
2		RS2-302	RS2-303	RS2-304	RS2-305	RS2-306						
3	3						RS3-307	RS3-308	RS3-309	RS3-310	RS3-311	RS3-312
2	4	RS2-402	RS2-403	RS2-404	RS2-405	RS2-406						
2	5	RS3-502	RS3-503	RS3-504	RS3-505	RS3-506						
3	6	RS3-602	RS3-603	RS3-604	RS3-605	RS3-606						

 $[\]square$: Not manufactured

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^{*}Verify the above part numbers when placing orders.

^{*}The above part numbers are all available respectively with the combination of Ground terminal (with or without). Contact timing (Shorting or Non-shorting), and Shaft shape (Round or D-cut).

■ STANDARD SPECIFICATIONS

Circuit type	1 pole 2 ~ 12 contacts (per block) 2 poles 2 ~ 6 contacts (per block)		
Operating temperature range	−40 ~ 85 °C		
Storage temperature range			
Sealing	Washable (only contact block, "0" ring sealed) ※Please refer to page 150, 151		
Net weight	Approx. 7 g (1 block) Approx. 13.6 g (2 blocks) Approx. 19.4 g (3 blocks)		

ELECTRICAL CHARACTERISTICS

Contact rating Maximum current Minimum current Maximum voltage Minimum voltage	1 VA 1 A 1 μA 30 V 20 mV				
Contact timing	Shorting, Non-shorting				
Contact resistance	100 mΩ maximum				
Insulation resistance	1000 MΩ (DC500 V) minimum				
Dielectric strength	AC500 V, 60 s				
Electrostatic capacity	4 pF maximum, 10 kHz				

■ MECHANICAL CHARACTERISTICS

Adjustment torque	60 ± 30 mN·m {612 ± 306 gf·cm}			
Stopper strength	500 mN·m {5.1 kgf·cm} minimum			
Stepping angle	30°			
Terminal strength	10 N {1.02 kgf} minimum			
Solderability	245 ± 3 °C, 2 ~ 3 s			
Soldering heat	Flow: 260 \pm 3 °C as the temperature in a pot of molten solder, immersion from head of terminal to backside of board, 5 ~ 6 s, two times maximum			
	Manual soldering : 380 \pm 10 °C, 3 \sim 4 s			

{ }: Reference only

ENVIRONMENTAL CHARACTERISTICS

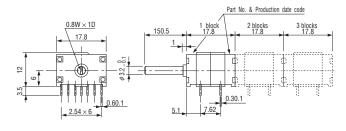
Vibration	Amplitude 3 mm or Acceleration 196 m/s², 10-2000-10 Hz, 3 directions for 4 h each			
Shock	980 m/s², 6 ms 6 directions for 3 times each			
Load life	500,000 steps or 50,000 cycles at 6 contacts with no load 200,000 steps or 20,000 cycles at 6 contacts with rated load			
Humidity (Steady state)	40 °C, Relative humidity 90 ~ 95 %, 240 h			
High temperature exposure	85 °C, 16 h			
Low temperature exposure	−40 °C, 16 h			

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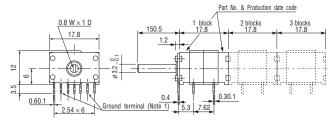
OUTLINE DIMENSIONS

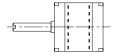
Unless otherwise specified, tolerance: \pm 0.3 (Unit: mm)

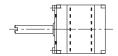
RS series



RG series

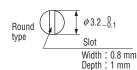


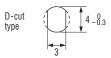




(Note1)
A ground terminal is connected electrically to a shaft.

(A) Diameter of shaft

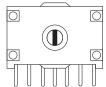




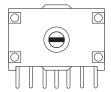
<Shaft slot direction>

There is a difference in the direction of the slot on the shaft between shorting and non-shorting type. The location of the shaft of each type when their shafts are fully turned to CCW is shown in the chart below.

Shorting type



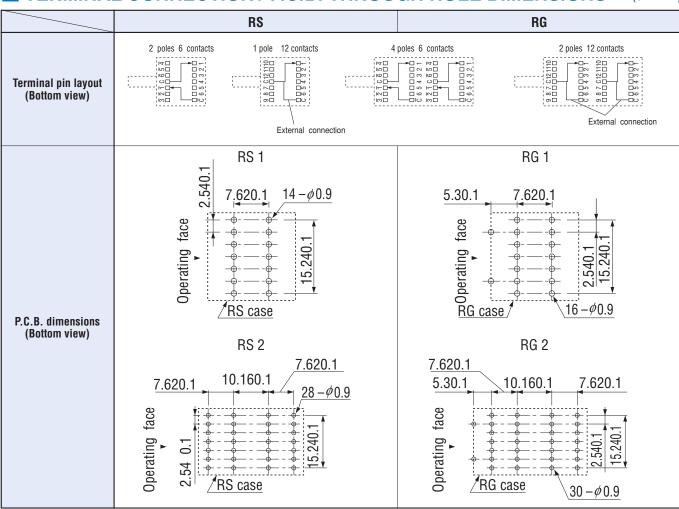
Non-shorting type



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■ TERMINAL CONNECTION / P.C.B. THROUGH HOLE DIMENSIONS

(Unit: mm)



PACKAGING SPECIFICATIONS

 Boxing of one block type is performed 20 pcs. (More than two blocks type are 10 pcs.) per box. Order will be accept for the quantities by packaging unit(s).

(Ex. 1 block: 20 pcs, 40pcs... / 2 blocks...: 10 pcs, 20 pcs...)

Note: The conventional knob (Round shaft, ϕ 3.2 mm) available in the market such as the one in the picture can be used.



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