

RBP12 Series 1-6 Pole Miniature Rotary Switches



Features/Benefits

- ***Rotary switch for low current***
- ***Shaft perpendicular to PCB***
- ***Index mechanism included in thickness of switch***
- ***Several actuation modes***
- ***Low profile***
- ***RoHS Compliant***

Typical Applications

- **Medical**
- **Instrumentation**
- **Appliances**

Electrical Data

Switching mode	MBB-BBM	MBB-BBM
	Make Before Break	Break Before Make
Max. switching power	5 VA (resistive)	0.5 VA (resistive)
Max. switching current	130 mA	20 mA
Max. carrying current	3 A	3 A
Contact resistance	< 15 m ohms	< 25 m ohms
Dielectric strength between contacts	1000 V	1000 V
at 50 Hz or contacts and ground	1000 V	1000 V
Nominal voltage	150 V rms	150 V rms
Number of operations	15,000	20,000
Insulation resistance between contacts and contacts and frame (500 Vcc)	> 5 x 10 ⁹ ohms	> 5 x 10 ⁹ ohms

Mechanical Data

Max. number of banks	1
Operating torque	2.5 Ncm $\pm$ 25% (1 pole)
Stop strength	> 40 Ncm
End stop	With/without or mobile
Contact material	Silver, Gold
Insulating material	Thermoplastic

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Environmental data

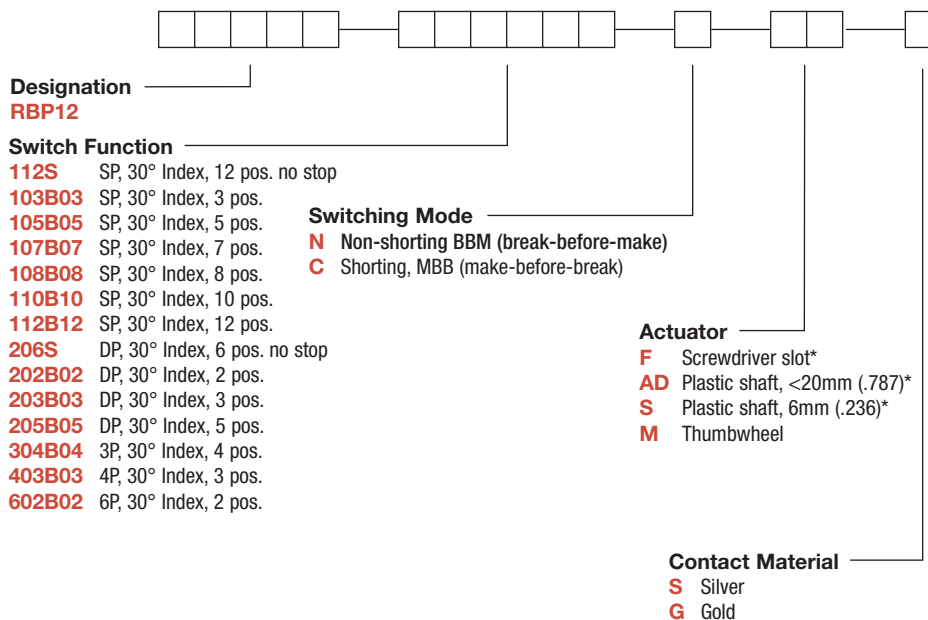
Storage temperature	- 25°C to + 70°C	- 25°C to + 85°C
Salt spray	NA	48 H

Further data

Solderability	Hand: 350°C/5 s	Wave: 260°C/5 s max.
Cleaning	Cleaning of modules prohibited	

Build-A-Switch

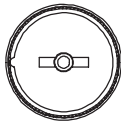
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages L-19 thru L-21. For additional options not shown in catalog, consult Customer Service Center.



*Option: Metallic shaft available by request

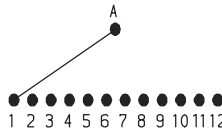
1-6 Pole Miniature Rotary Switches

RBP12

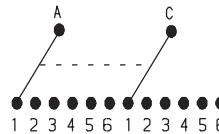


30° INDEXING		
NO. POLES	MODEL NO.	SWITCH FUNCTION
SP	112S	12 Position No Stops
	103B03	3 Positions
	105B05	5 Positions
	107B07	7 Positions
	108B08	8 Positions
	110B10	10 Positions
	112B12	12 Positions
DP	206S	6 Positions No Stop
	202B02	3 Positions
	203B03	3 Positions
	205B05	5 Positions

SP MODELS SCHEMATIC

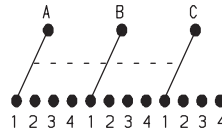


DP MODELS SCHEMATIC

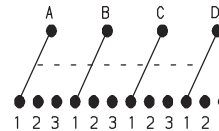


30° INDEXING		
NO. POLES	MODEL NO.	SWITCH FUNCTION
3P	304B04	4 Positions
4P	403B03	3 Positions
6P	602B02	2 Positions

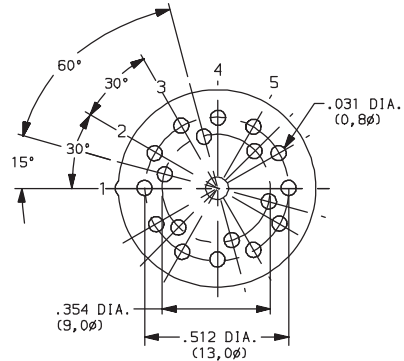
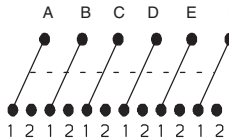
3P MODELS SCHEMATIC



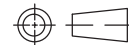
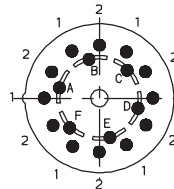
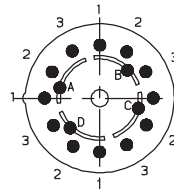
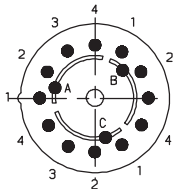
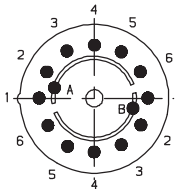
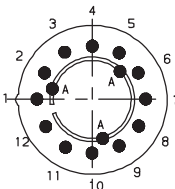
4P MODELS SCHEMATIC



6P MODELS SCHEMATIC



PC LAYOUTS



Third Angle Projection

Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change

RBP12 Series

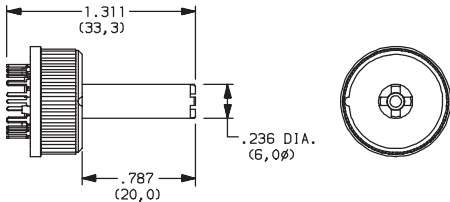
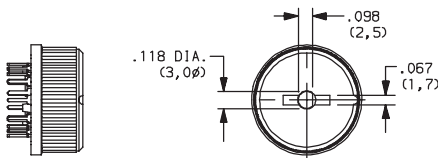
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SWITCHING MODE 

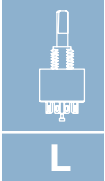
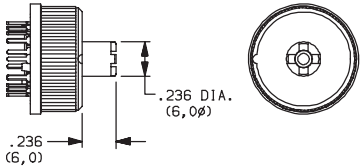
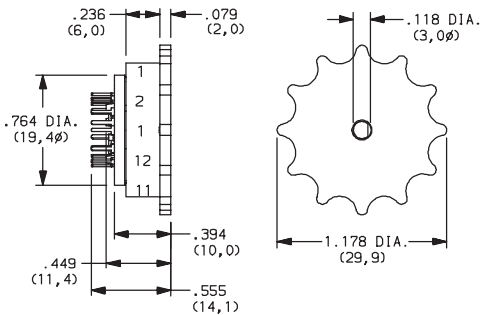
- N** NON-SHORTING, BBM (break-before-make)
- C** SHORTING, MBB (make-before-break)

ACTUATOR 

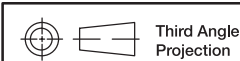
- F** SCREWDRIVER SLOT
- AD** PLASTIC SHAFT, <20 mm (.787)



- M** THUMBWHEEL
- S** PLASTIC SHAFT, 6 mm (.236)



Rotary



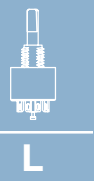
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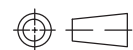
CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATING	
S	SILVER	LOW LEVEL/DRY CIRCUIT	SWITCH: 130 mA, POWER: 5 VA MAXIMUM. CARRY: 3 AMPS
G	GOLD	LOW LEVEL/DRY CIRCUIT OR POWER	SWITCH: 20 mA, POWER: 0.5 VA MAXIMUM. CARRY: 3 AMPS

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.



Rotary



Third Angle Projection

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