

C&K 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***

Typical Applications

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

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: For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

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

Electrical Data

Switching mode	MBB-BBM Make Before Break, Break Before Make	MBB-BBM
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

Environmental data

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

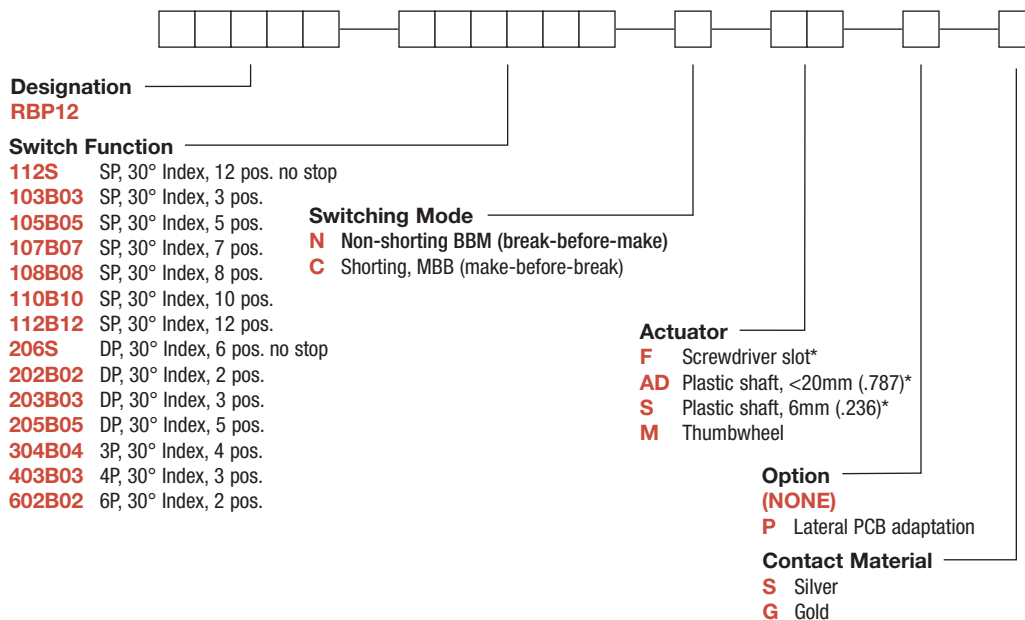
Further data

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



Build-A-Switch

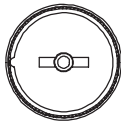
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages L-19 thru L-21. For additional options not shown in catalog, consult Customer Service Center.



*Option: Metallic shaft available by request

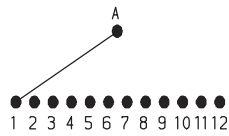
1-6 Pole Miniature Rotary Switches

RBP12

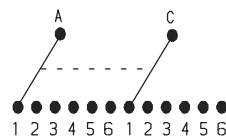


30° INDEXING		
NO. POLES	MODEL NO.	SWITCH FUNCTION
SP	112S	12 Position No Stops
	103B03	3 Positions
	105B05	5 Positions
	107B07	7 Positions
	108B08	8 Positions
	110B10	10 Positions
	112B12	12 Positions
DP	206S	6 Positions No Stop
	202B02	3 Positions
	203B03	3 Positions
	205B05	5 Positions

SP MODELS SCHEMATIC

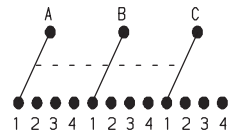


DP MODELS SCHEMATIC

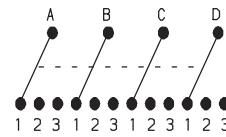


30° INDEXING		
NO. POLES	MODEL NO.	SWITCH FUNCTION
3P	304B04	4 Positions
4P	403B03	3 Positions
6P	602B02	2 Positions

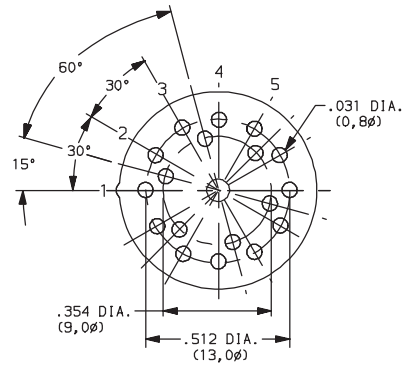
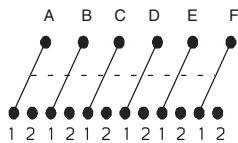
3P MODELS SCHEMATIC



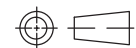
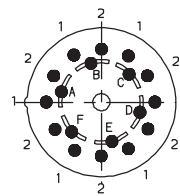
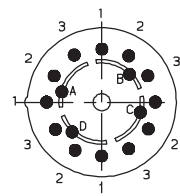
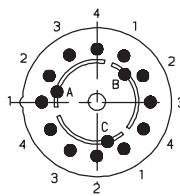
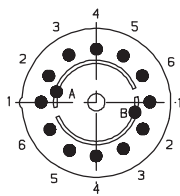
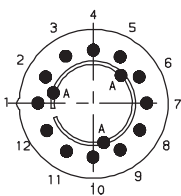
4P MODELS SCHEMATIC



6P MODELS SCHEMATIC



PC LAYOUTS



Third Angle Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

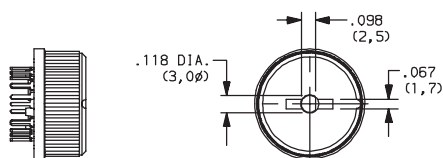
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SWITCHING MODE

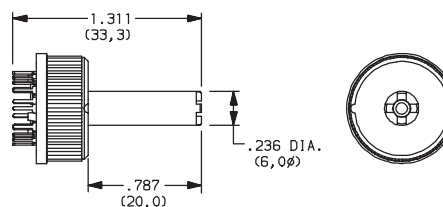
- N** NON-SHORTING, BBM (break-before-make)
- C** SHORTING, MBB (make-before-break)

ACTUATOR

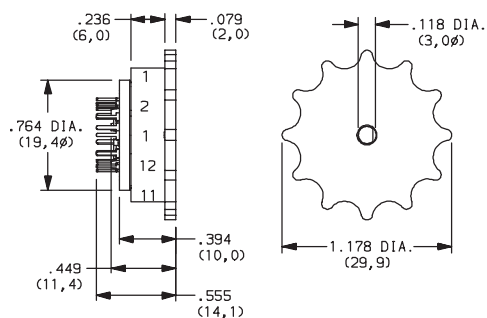
- F** SCREWDRIVER SLOT



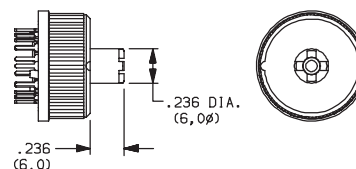
- AD** PLASTIC SHAFT, <20 mm (.787)



- M** THUMBWHEEL



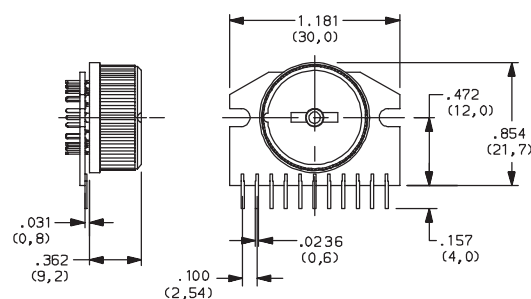
- S** PLASTIC SHAFT, 6 mm (.236)



OPTION

- (NONE)**

- P** LATERAL PCB ADAPTATION



Third Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



CONTACT MATERIAL

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

www.ittcannon.com



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Components:

[RBP12-304B04-N-F-S](#)