# C&K RTBV Series 1-2 Pole Coded Rotary Switches



#### Features/Benefits

- Totally sealed
- Detent angles, 15, 22.5, 30 and 36
- Multi pole
- Coding functions
- Robust construction

#### Typical Applications

- Telecommunications
- Military
- Instrumentation
- Heavy-duty industrial equipment

#### **Specifications**

CONTACT RATING: S Contact material: Switch: 250mA, 5VA

resistive load, Carry: 5 AMPS

ELECTRICAL LIFE: Up to 25,000 operations.

OPERATING TORQUE: 5Ncm±30% (with 1 module).

MECHANICAL STOP RESISTANCE: > 70 Ncm.

BUSHING MOUNTING TORQUE: 100 Ncm.

CONTACT RESISTANCE: < 100 m  $\Omega$ . INSULATION RESISTANCE: >  $10^9~\Omega$  DIELECTRIC STRENGTH: 500 V rms.

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.

# Materials

HOUSING: PBT thermoplastic and PC thermoplastic

STATIONARY CONTACTS & TERMINALS: Nickel alloy, gold or

silver plated, insert molded in PBT thermoplastic.

ROTOR: Printed circuit, gold or silver plated.

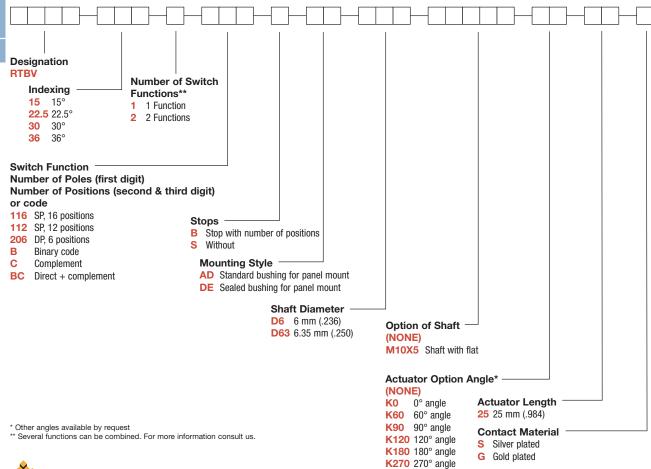
ACTUATOR: Steel BUSHING: Brass

HARDWARE: Stop pin and spring: Stainless steel

All models are RoHS compliant and compatible.

#### **Build-A-Switch**

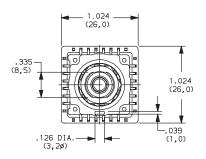
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages L-33 thru L-37. For additional options not shown in catalog, consult Customer Service Center.



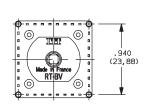


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change 

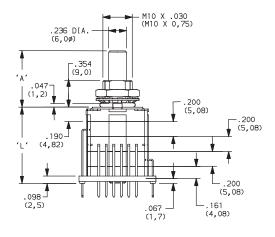
#### **RTBV**



**DESIGNATION** 







15 15° index, 24 POSITIONS MAXIMUM

22.5 22.5° index, 16 POSITIONS MAXIMUM

30 30° index, 12 POSITIONS MAXIMUM

36 36° index, 10 POSITIONS MAXIMUM



Third Angle

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



#### NUMBER OF SWITCH FUNCTIONS

1 1 FUNCTION

2 FUNCTIONS

NOTE: Several functions can be combined. For more information consult us.

#### NUMBER OF POLES / POSITIONS

116 22.5 INDEX, SP, 16 POSITIONS

112 30 INDEX, SP, 12 POSITIONS

206 30 INDEX, DP, 6 POSITIONS

BINARY CODE, 15 /22.5 /30 /36

C COMPLEMENT, 15 /22.5 /30 /36

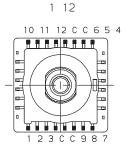
BC DIRECT + COMPLEMENT, 15 /22.5 /30 /36

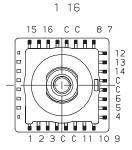
#### SINGLE POLE FUNCTION





		_	_	_	_	_		_	_	_	_			_		_		_	_	_					_
	С	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	•	•	П																						
2	•		•																						
3	•			•																					
4	•				•																				
5	•					•																			
6	•																								
7	•							•																	
8	•								•																
9	•																								
10	•										•														
11	•											•													
12	•												•												
13	•													•											
14	•										П		П	П	•		П							П	
15	•															•									
16	•																•								
17	•																	•							
18	•																		•						П
19	•																			•					
20	•																				•				
21	•																					•			
22	•																						•		
23	•																							•	
24	•																								•







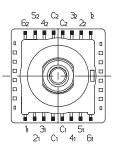


# **C&K RTBV Series** 1-2 Pole Coded Rotary Switches

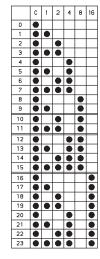
#### **NUMBER OF POLES / POSITIONS**

DOUBLE POLE FUNCTION

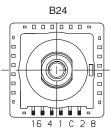
	C <sub>1</sub>	11	21	31	41	51	61	C2	12	22	32	42	52	62
1	•	•						•	•					
2	•									•				
3	•			•				•			•			
4	•				•									
5	•					•		•					•	
6	•						•	•						•

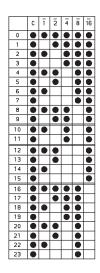


BINARY DIRECT CODE

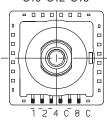


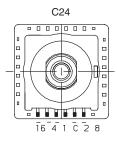
B10 B12 B16 - - - - - - - -1 2 4 C 8 C







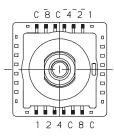




DIRECT AND COMPLEMENT BINARY CODE

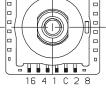
	_	_	_	_	_	_	_	_	_	_	_	_
	С	1	2	4	8	16	С	ī	2	4	8	16
0	•						•	•	•	•	•	•
1	•	•							•	•	•	•
2	•		•				•	•			•	
3	•	•	•				•			•	•	
4	•			•			•	•	•		•	•
5	•	•		•			•		•		•	•
6	•		•	•			•	•			•	•
7	•	•	•	•			•				•	
8	•				•		•	•	•	•		
9	•	•			•		•		•	•		•
10	•		•		•		•	•		•		•
11	•	•	•		•		•			•		•
12	•			•	•		•	•	•			•
13	•	•		•	•		•		•			•
14	•		•	•	•		•	•				•
15	•	•	•	•	•		•					•
16	•					•	•	•	•	•	•	
17	•	•				•	•		•	•	•	
18	•		•			•	•	•		•	•	
19	•	•	•			•	•			•	•	
20	•			•		•	•	•	•		•	
21	•	•		•		•	•		•		•	
22	•		•	•		•	•	•			•	
23	•	•	•	•		•	•				•	

BC10 BC12 BC16





BC24



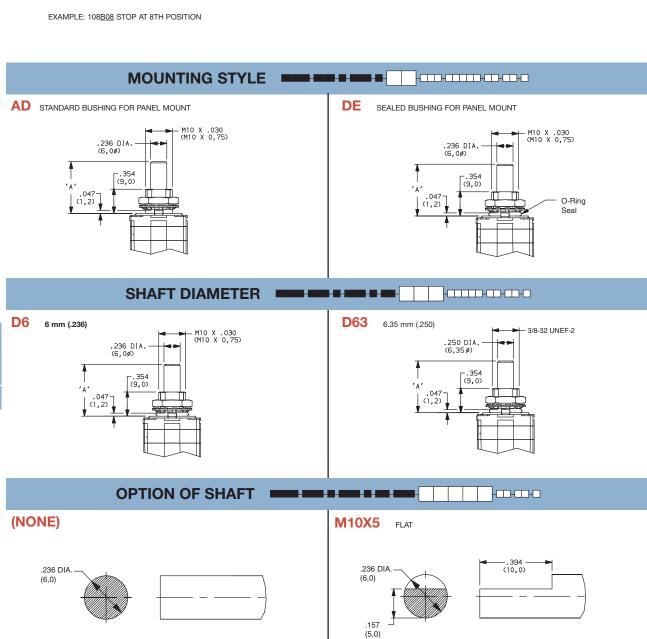


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

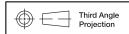






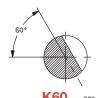


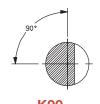


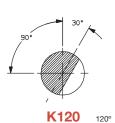


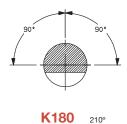
### (NONE)





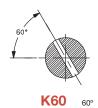


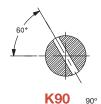


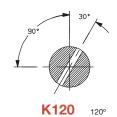














#### ACTUATOR LENGTH

25 0,25 mm (.984) STANDARD SHAFT

Other lengths available by request.

# CONTACT MATERIAL

OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT AND TERMINAL MATERIAL		RATING
s	YES	YES	SILVER	LOW LEVEL/DRY CIRCUIT	SWITCH: 250 mA, POWER: 5 VA; CARRY: 5 AMPS
G	YES	YES	GOLD	LOW LEVEL/DRY CIRCUIT OR POWER	SWITCH: 20 mA, POWER: 0.2 VA; CARRY: 1 AMP

<sup>\*</sup> Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.





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