

### Features/Benefits

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

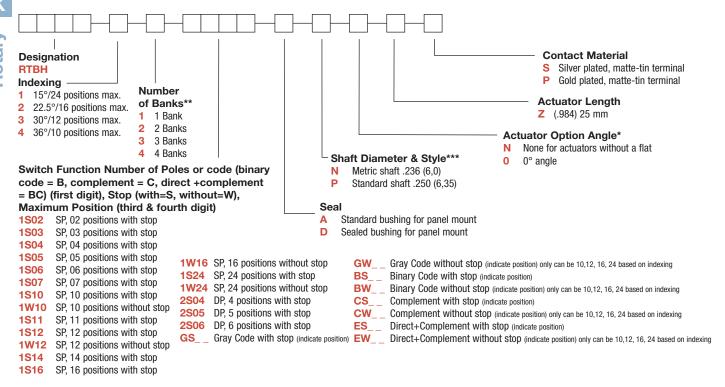
## Typical Applications

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

Electrical Data	Silver	Gold	<b>Environmental Data</b>	
SWITCHING MODE: MAX. SWITCHING POWER:	BBM* 5VA	BBM* 0.2VA	OPERATING TEMPERATURE: STORAGE TEMPERATURE:	-25°C to +70°C -40°C to +85°C
Max. SWITCHING CURRENT: MIN. SWITCHING CURRENT:	250 mA 10 mA	20 mA 1 mA	TOTALLY SEALED:	Immersion test acc. to MIL R22.097 F and NFC 20631/QF
MAX. CARRYING CURRENT: MAX. VOLTAGE:	5A 25V	1A 25V	* BBM= Break Before Make (no	on-starting)
MIN. VOLTAGE:	5V	1V	Materials	
BOUNCE: CONTACT RESISTANCE after life: DIALECTRIC STRENGTH between	$<$ 5ms $<$ 100m $\Omega$	<5ms $<$ 100m $\Omega$		RMINALS: Nickel plated Brass aith
contacts or contacts and frame: INSULATION RESISTANCE between	500 V rms	500 V rms	additional Gold or Silver plating ROTOR: Printed circuit, gold of ACTUATOR: Steel	g, insert molded in PBT thermoplastic. r silver plated.
contacts or contacts and frame:	$>$ 10 $^{9}\Omega$	$>$ 10 $^{9}\Omega$	BUSHING: Brass	
Mechanical Data			HARDWARE: Stop pin and spri	ing: Stainless steel
NUMBER OF BANKS: OPERATING TORQUE:	1 to 4 5 Ncm±30% (with 1 module) >70 Ncm		All models are RoHS compliant	t and compatible.  d above are for switches with standard options.
MECHANICAL STOP RESISTANCE: BUSHING MOUNTING TORQUE:		Ncm		witches, consult Customer Service Center.

## **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 K-19 thru K-23. For additional options not shown in catalog, consult Customer Service Center.

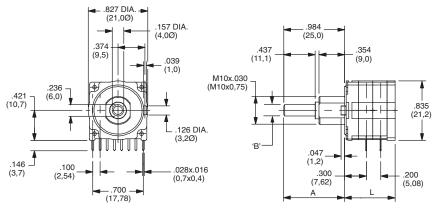


- For other actuator options please contact Customer Service. Several functions can be combined, please contact Customer Service.
- Metric diameter shafts are only available with metric diameter bushings, standard 1.250 inch diameter shafts are only available with standard 3/8 diameter bushings.





## **RTBH**





7x0.100 (7x2,54) STANDARD FUNCTION	.200 (5,08) PITCH PER SECTION
	<u>+</u> + <u>+</u>
<b>†</b>	1.100 REF (2,54)
	<del>-</del>
5x0.100 (5x2,54) CODED FUNCTION	ø.039 TYP (1)

Dimension	ns L			
Number	L			
modules	inch	mm		
1	0.500	12.7		
2	0.700	17.78		
3	0.900	22.86		
4	1.10	27.94		
Dimensions A				
A: (standard) 0.984 inch (25 mm)				
Dimensions B				
0.236 or 0. (Ø6 or 6.35				

## 

- 1 15° index/24 positions
- 22.5° index/16 positions
- 30° index/12 positions
- 4 36° index/10 positions

## NUMBER OF BANKS

- 1 1 BANK
- 2 BANKS
- 3 BANKS
- 4 BANKS

 $\textbf{NOTE:} \ \ \text{Several functions can be combined.} \ \ \text{For more information consult customer service.}$ 



## SWITCH FUNCTION ----

Switch Function Number of Poles or code (binary code = B, complement = C, direct +complement = BC) (first digit), Stop (with=S, without=W), Maximum Position (third & fourth digit)

SP, 02 positions with stop 1S03 SP, 03 positions with stop **1S04** SP, 04 positions with stop SP, 05 positions with stop 1S05 SP, 06 positions with stop **1S06** SP, 07 positions with stop **1S07** SP, 10 positions with stop **1S10** 1W10 SP, 10 positions without stop **1S11** SP, 11 positions with stop 1S12 SP, 12 positions with stop 1W12 SP. 12 positions without stop SP, 14 positions with stop **1S14 1S16** SP, 16 positions with stop 1W16 SP, 16 positions without stop SP, 24 positions with stop

1W24 SP, 24 positions without stop

2S04 DP, 4 positions with stop
2S05 DP, 5 positions with stop
2S06 DP, 6 positions with stop

GS\_\_ Gray Code with stop (indicate position) only can be 10,12, 16, 24 based on indexing

BS\_\_ Binary Code without stop (indicate position)

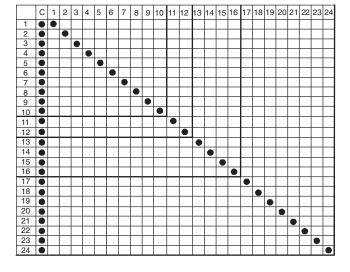
BW\_\_ Binary Code without stop (indicate position) only can be 10,12, 16, 24 based on indexing

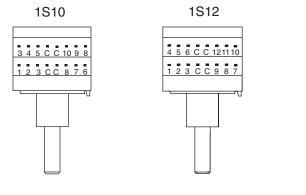
CS\_\_ Complement with stop (indicate position)

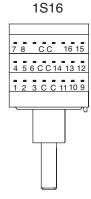
CW\_ \_ Complement without stop (indicate position) only can be 10,12, 16, 24 based on indexing ES\_ \_ Direct+Complement with stop (indicate position)

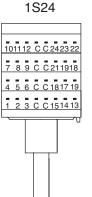
EW\_\_ Direct+Complement without stop (indicate position) only can be 10,12, 16, 24 based on indexing

1 Single Pole Function 1S10, 1S12, 1S16, 1S24

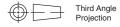


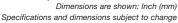




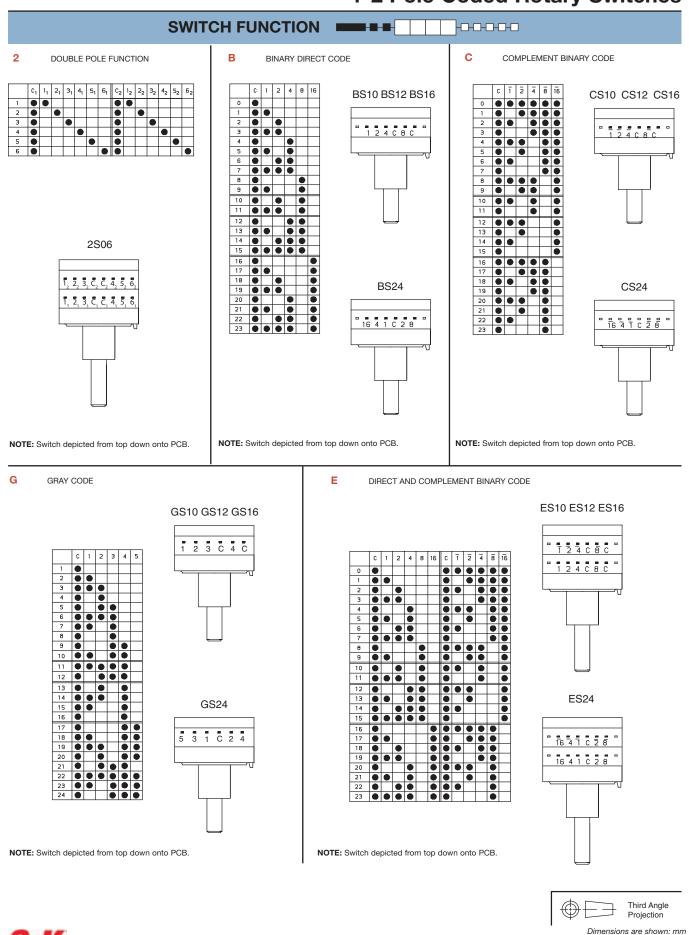


NOTE: Switch depicted from top down onto PCB.





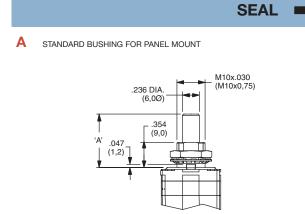






## RTBH Series

## 1-2 Pole Coded Rotary Switches



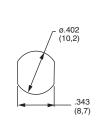
## SHAFT DIAMETER & STYLE

METRIC SHAFT 0.236 (6,0)

.236 DIA. (6,02)

.354 (9,0)

(A' .047 (1,2)



STANDARD SHAFT 0.250 (6,35)

3/8-32 UNEF-2A

0.383
(9,73)

(1,2)

3/4

(8,7)

## **ACTUATOR OPTION ANGLE**

SHAFT WITH FLAT OPTIONS

N (None) FOR ACTUATORS WITHOUT A FLAT



0 ANGLE

SHAFT WITH SLOT OPTIONS

-0-0-0-0



0 (STD.) 0 ANGLE

## **ACTUATOR LENGTH**

\_\_\_\_

Z (.984) 0,25 mm STANDARD SHAFT

Other lengths available by request.



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



## CONTACT MATERIAL

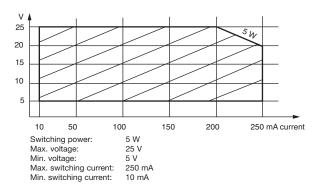
OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATING
S	SILVER	SWITCH: 250 mA, POWER: 5 VA; CARRY: 5 AMPS
Р	GOLD	SWITCH: 20 mA, POWER: 0.2 VA; CARRY: 1 AMP

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

### SWITCHING POWER

S

(SILVER CONTACTS)



(GOLD CONTACTS)

