#### 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	Environmental Data	
SWITCHING MODE:	BBM*	BBM*	OPERATING TEMPERATURE:	-25°C to +70°C
MAX. SWITCHING POWER:	5VA	0.2VA	STORAGE TEMPERATURE:	-40°C to +85°C
Max. SWITCHING CURRENT:	250 mA	20 mA	TOTALLY SEALED:	Immersion test acc. to MIL
MIN. SWITCHING CURRENT:	10 mA	1 mA		R22.097 F and NFC 20631/QF
MAX. CARRYING CURRENT:	5A	1A	* BBM= Break Before Make (non-starting)	
MAX. VOLTAGE:	25V	25V	· ·	
MIN. VOLTAGE:	5V	1V	Materials	
BOUNCE:	<5ms	<5ms	HOUSING: PBT thermoplastic and PC thermoplastic STATIONARY CONTACTS & TERMINALS: Nickel plated Brass aith	
CONTACT RESISTANCE after life:	$<100m\Omega$	<100m $\Omega$		
DIALECTRIC STRENGTH between				ing, insert molded in PBT thermoplastic.
contacts or contacts and frame:	500 V rms	500 V rms	ROTOR: Printed circuit, gold c	
INSULATION RESISTANCE between	1000	1000	ACTUATOR: Steel	
contacts or contacts and frame:	>10 <sup>9</sup> Ω	>10 <sup>9</sup> Ω	BUSHING: Brass	
Mechanical Data			HARDWARE: Stop pin and sp	ring: Stainless steel
NUMBER OF BANKS:	1 to 4 5 Ncm±30% (with 1 module) >70 Ncm 100 Ncm		All models are RoHS compliar	nt and compatible.
OPERATING TORQUE:				
MECHANICAL STOP RESISTANCE:			NOTE: Specifications and materials liste	ed above are for switches with standard options.
BUSHING MOUNTING TORQUE:			For information on specific and custom switches, consult Customer Service Center.	
Booling moonthing foligoe.	100			

#### **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.



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

DESIGNATION -------

**RTBH** 



3 30° index/12 positions

1

2

4 36° index/10 positions

### NUMBER OF BANKS

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

NOTE: Several functions can be combined. 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)

1S02	SP, 02 positions with stop
1S03	SP, 03 positions with stop
1S04	SP, 04 positions with stop
1S05	SP, 05 positions with stop
1S06	SP, 06 positions with stop
1S07	SP, 07 positions with stop
1S10	SP, 10 positions with stop
1W10	SP, 10 positions without stop
1S11	SP, 11 positions with stop
1S12	SP, 12 positions with stop
1W12	SP, 12 positions without stop
1S14	SP, 14 positions with stop
1S16	SP, 16 positions with stop
1W16	SP, 16 positions without stop
1 <b>S</b> 24	SP, 24 positions with stop
1W24	SP, 24 positions without stop

2S04	DP, 4 posit	tions with stop
------	-------------	-----------------

- **2S05** DP, 5 positions with stop
- **2S06** DP, 6 positions with stop
- GS\_ \_ Gray Code with stop (indicate position)
- GW\_ \_ Gray Code without stop (indicate position) only can be 10,12, 16, 24 based on indexing
- BS\_\_\_ Binary Code with 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.



www.ck-components.com



\_\_\_\_\_

K-21

2

Specifications and dimensions subject to change



Other lengths available by request.



Rotary X



### 

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

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







Dimensions are shown: mm Specifications and dimensions subject to change