

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

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	· ·	6,
MIN. VOLTAGE:	5V	1V	Materials	
BOUNCE:	<5ms	<5ms	HOUSING: PBT thermoplastic and PC thermoplastic STATIONARY CONTACTS & TERMINALS: Nickel plated Bra	
CONTACT RESISTANCE after life:	$<100m\Omega$	<100m Ω		
DIALECTRIC STRENGTH between				g, insert molded in PBT thermoplastic
contacts or contacts and frame:	500 V rms	500 V rms	ROTOR: Printed circuit, gold or silver plated.	
INSULATION RESISTANCE between			ACTUATOR: Steel	
contacts or contacts and frame:	>10 ⁹ Ω	>10 ⁹ Ω	BUSHING: Brass	
Mechanical Data			HARDWARE: Stop pin and spi	ring: Stainless steel
NUMBER OF BANKS:	1 to 10 5 Ncm±30% (with 1 module)		All models are RoHS complian	t and compatible.
OPERATING TORQUE:				
MECHANICAL STOP RESISTANCE:	```	Ncm	NOTE: Specifications and materials liste	d above are for switches with standard options.
BUSHING MOUNTING TORQUE:	100 Ncm		For information on specific and custom	switches, 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-25 thru K-29. For additional options not shown in catalog, consult Customer Service Center.

Rotary X

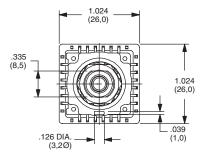
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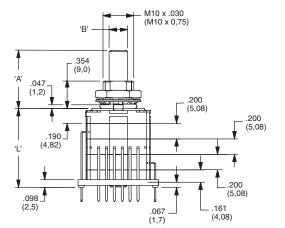
Designation RTBV Indexing				_			 Contact Material S Silver plated, matte-tin terminal P Gold plated, matte-tin terminal
1 15°/24 positions max.							- Actuator Length Z (.984) 25 mm
2 22.3 / 10 pusitions max.							2 (.304) 23 mm
3 SU / 12 PUSILIUIIS IIIdX.	-					Ac	tuator Option Angle*
4 36°/10 positions max. 1 1 Ban 2 2 Ban						Ν	None for actuators without a flat
3 3 Ban				- Sha	aft Diameter & Style***	0	0° angle
4 4 Ban				Ν	Metric shaft .236 (6,0)	3	30° angle
				Ρ	Standard shaft .250 (6,35)	6	60° angle
Switch Function Number of Pole	es or co	de (hinary		F	Metric shaft with flat .236 (6,0)	9	90° angle
code = B, complement = C, direct +complement			G	Standard shaft with flat .250 (6,35)	2	120° angle	
= BC) (first digit), Stop (with=S, without=W),				S	Metric shaft with slot .236 (6,0)	8	180° angle
Maximum Position (third & four		,,		т	Standard shaft with slot .250 (6,35)	1	270° angle
1S02 SP, 02 positions with stop			s	Seal			
1S03 SP, 03 positions with stop			A		standard bushing for panel mount		
1S04 SP, 04 positions with stop) S	ealed bushing for panel mount		
1S05 SP, 05 positions with stop	1S14	SP, 14 positions	with stop		GS Gray Code with stop (indicate	positi	ion)
1S06 SP, 06 positions with stop	1S16	SP, 16 positions	with stop		GW_ Gray Code without stop (indica	ate po	sition) only can be 10,12, 16, 24 based on indexing
1S07 SP, 07 positions with stop	1W16	SP, 16 positions	without st	ор	BS_ Binary Code with stop (indicate	e posi	ition)
1S10 SP, 10 positions with stop	1 S2 4	SP, 24 positions	with stop		BW_ Binary Code without stop (ind	licate	position) only can be 10,12, 16, 24 based on indexing
1W10 SP, 10 positions without stop	1W24	SP, 24 positions	without st	ор	CS Complement with stop (indicat	te pos	sition)
1S11 SP, 11 positions with stop	2 S 04	DP, 4 positions	with stop		CWComplement without stop (in	dicate	e position) only can be 10,12, 16, 24 based on indexing
1S12 SP, 12 positions with stop	2 S 05	DP, 5 positions	with stop		ES_ Direct+Complement with sto	p (in	dicate position)
1W12 SP, 12 positions without stop	2S06	DP, 6 positions	with stop		EW Direct+Complement without	stop	0 (indicate position) only can be 10,12, 16, 24 based on indexing
* Other angles available by request ** Several functions can be combined. For more information consult us.			c	diamet	e: Metric diameter shafts are only available ter shafts are only available with standard : S&T Shaft Diameter and Style are only av	3/8 0	



DESIGNATION

RTBV DIMENSIONAL DRAWINGS





l	I	1		
Dimensio	ns L			
Number		L		
modules	inch	mm		
1	0.419	10.65		
2	0.619	15.73		
3	0.819	20.81		
4	1.02	25.89		
Dimensions A				
A: (standard) 0.984 inch (25 mm)				

Dimensions B 0.236 or 0.250 inch (Ø6 or 6.35 mm)

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.940 (23,88)

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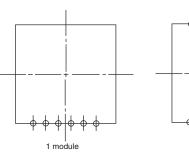
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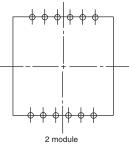
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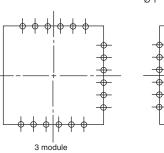
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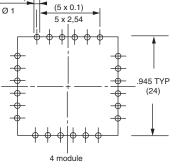
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INDEXING

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- 1 15° index/24 positions
- 2 22.5° index/16 positions
- 3 30° index/12 positions
- 4 36° index/10 positions





Specifications and dimensions subject to change

1	1 BANK
2	2 BANKS
3	3 BANKS
4	4 BANKS
NOTE	Several functions can be combined. For more information consult customer service.

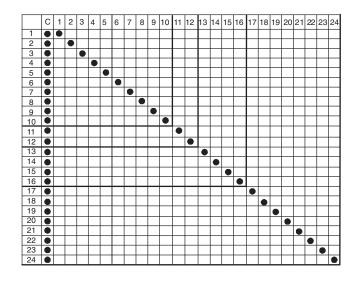
Switch Function Number of Poles or code (binary code = B, complement = C, direct +complement = BC) (first digit), Stop (with=S, without=W), Maximum Position (third & fourth digit)

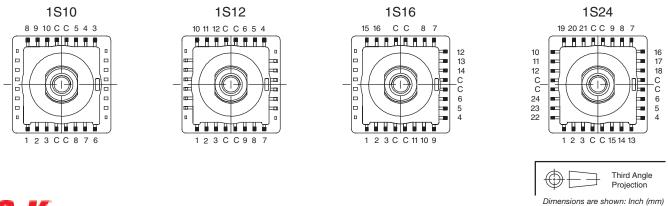
SWITCH FUNCTION

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

1S24	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)
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

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



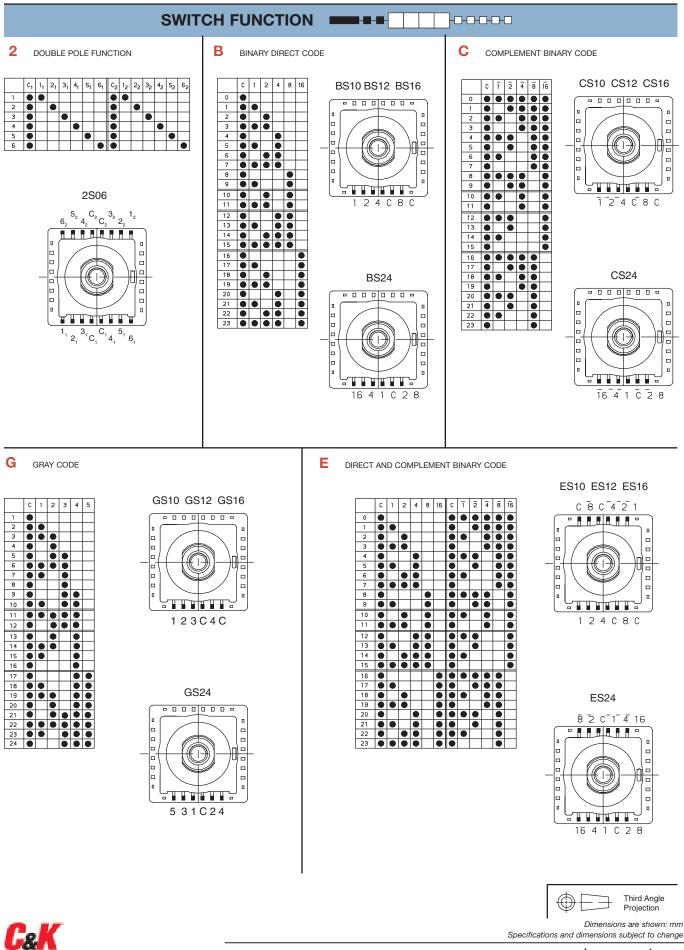




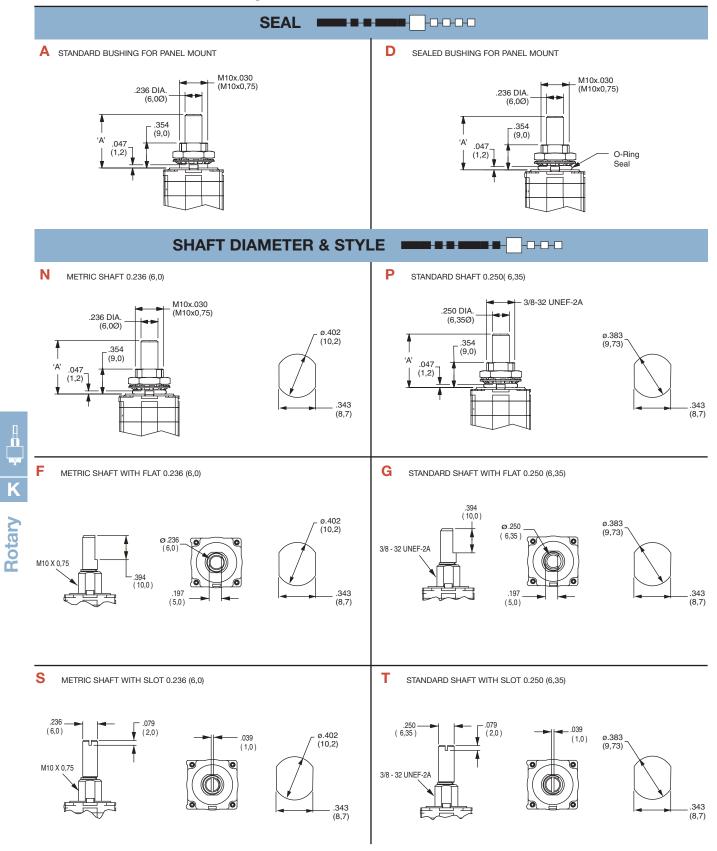
www.ck-components.com

Specifications and dimensions subject to change

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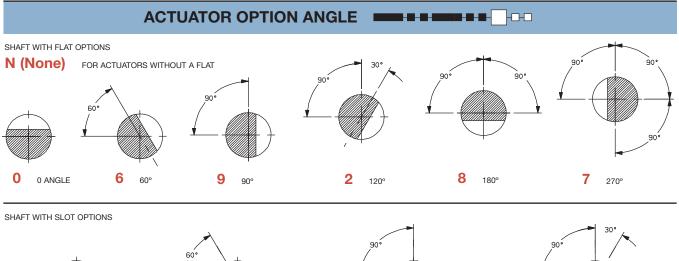


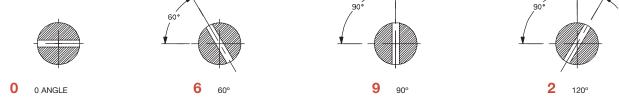
***Note: Metric diameter shafts are only available with metric diameter bushings, standard 1.250 inch diameter shafts are only available with standard 3/8 diameter bushings.



Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change





* Note: S&T Shaft Diameter and Style are only available with Actuator Option Angle 0, 6, 9, 2.

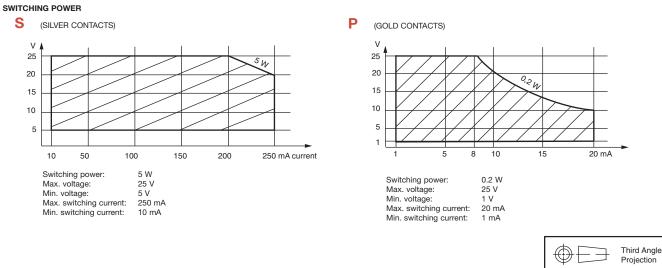
ACTUATOR LENGTH

Z (.984) 0,25 mm STANDARD SHAFT

Other lengths available by request.

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

* 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