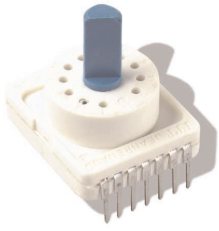
C&K RTA Series
1-4 Poles Coded Rotary Switches



Features/Benefits

- *PCB or hand soldering versions*
- *Bushing mounting*
- *Multiple poles*
- *Decimal and hexadecimal codes*
- *Screwdriver slot or extended actuator*

Typical Applications

- *Appliances*
- *Electronic alarm systems*
- *Medical*
- *Building automation*
- *HVAC air conditioning*

Specifications

CONTACT RATING: 5 AMPS
ELECTRICAL LIFE: 10,000 operations.
OPERATING TORQUE: 5 Ncm±20%.
END STOP TORQUE: > 6 Ncm.
CONTACT RESISTANCE: < 150 mΩ
INSULATION RESISTANCE: 10^9 Ω
DIELECTRIC STRENGTH: 500 V rms

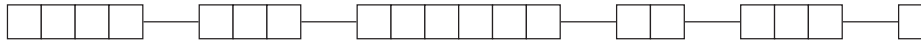
NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Materials

HOUSING: PETP Thermoplastic
STATIONARY CONTACTS & TERMINALS: Nickel alloy, gold or silver plated.
ROTOR: Printed circuit, gold or silver plated.
CODING PLATE: PA thermoplastic
ACTUATOR: Polysulfon thermoplastic
BUSHING: Washer: PA. Nut: Brass.
HARDWARE: Stop pin: Aluminum. Ball & Spring: Stainless steel.

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-9 thru K-11. For additional options not shown in catalog, consult Customer Service Center.



Designation
RTAP (STD.) With Pc pins
RTAC (STD.) With solder lugs

Indexing
22.5 (STD.) 22.5 index (coded only)
30 (STD.) 30° index (12 positions max.)
36 (STD.) 36° index (10 positions max.)

Switch Function
112S (STD.) SP, 30° Index, 12 pos. no stop
110S (STD.) SP, 36° Index, 10 pos. no stop
102B02 SP, 30° /36° Index, 2 pos.
103B03 SP, 30° /36° Index, 3 pos.
104B04 SP, 30° /36° Index, 4 pos.
105B05 SP, 30° Index, 5 pos.
106B06 SP, 30° /36° Index, 6 pos.
107B07 SP, 30° /36° Index, 7 pos.
108B08 SP, 30° /36° Index, 8 pos.
109B09 SP, 30° /36° Index, 9 pos.
110B10 (STD.) SP, 30° /36° Index, 10 pos.
111B11 SP, 30° Index, 11 pos.
112B12 (STD.) SP, 30° Index, 12 pos.
206S (STD.) DP, 30° Index, 6 pos. no stop
205S (STD.) DP, 36° Index, 5 pos. no stop
202B02 DP, 30° /36° Index, 2 pos.
203B03 DP, 30° /36° Index, 3 pos.
204B04 DP, 30° /36° Index, 4 pos.
205B05 DP, 30° /36° Index, 5 pos.
206B06 (STD.) DP, 30° Index, 6 pos.
303S 3P, 30° /36° Index, 3 pos. no stop
302B02 3P, 30° /36° Index, 2 pos.
303B03 3P, 30° /36° Index, 3 pos.
4025 4P, 30° /36° Index, 2 pos. no stop
402B02 4P, 30° /36° Index, 2 pos.

Mounting Style
SD (STD.) Without
AD (STD.) With

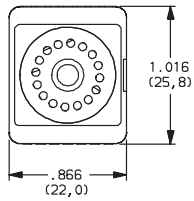
Actuator (max.)
25 (STD.) .984 (25,0)
50 1.97 (50,0)
F (STD.) Screwdriver slot
M25 Flat shaft, .984 (25,0)
M50 Flat shaft, 1.97 (50,0)

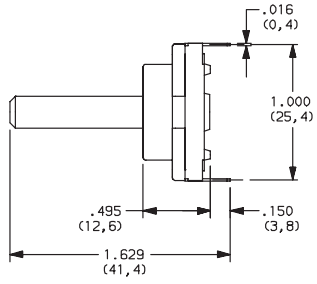
Contact Material
S (STD.) Silver plated
G Gold plated

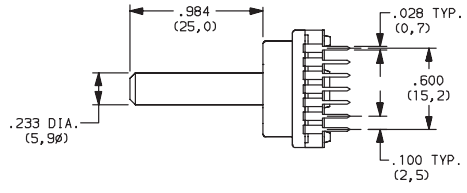
BCS (STD.) Direct + complement, 30° /36° Index, no stop
BS (STD.) Direct, 22.5° Index, no stop
GS Gray, 22.5° Index, no stop
BCB Direct + complement, with stop (indicate position)
GB Gray, 22.5° Index, with stop (indicate position)
BB Direct, 22.5° Index, with stop (indicate position)

DESIGNATION

RTAP (STD.) WITH PC PINS



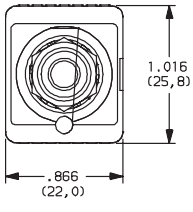


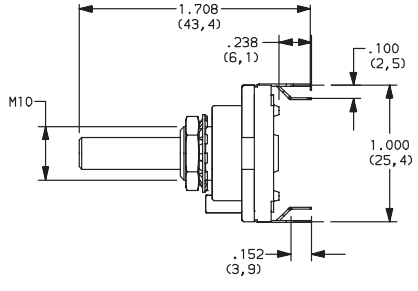


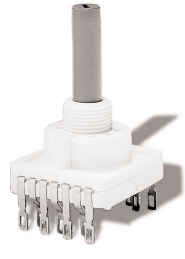


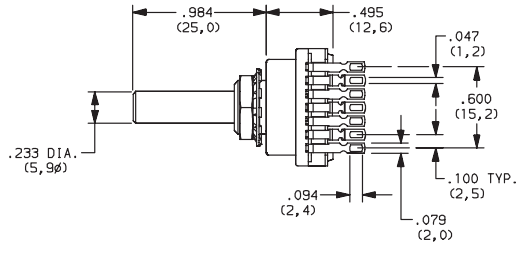
PART NUMBER	FUNCTION	INDEX
RTAP22.5BSSD25S	Binary	22.5
RTAP30112SSD25S	SP 12 positions no stop	30
RTAP36110SSD25S	SP 10 positions no stop	36

RTAC (STD.) WITH SOLDER LUGS









PART NUMBER	FUNCTION	INDEX
RTAC22.5BSAD25S	Binary	22.5
RTAC30112SAD25S	SP 12 positions no stop	30
RTAC36110SAD25S	SP 10 positions no stop	36

INDEXING

22.5 (STD.) 22.5 index, 16 positions max.

30 (STD.) 30 index, 12 positions max.

36 (STD.) 36 index, 10 positions max.

Third Angle Projection

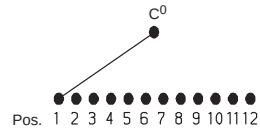
Dimensions are shown: IN (mm)
Dimensions subject to change

C&K RTA Series
1-4 Poles Coded Rotary Switches

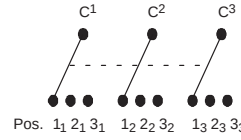
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION	INDEX
SP	112S	12 Positions No Stop	30º
	110S	10 Positions No Stop	36º
	102B02	2 Positions	30º /36º
	103B03	3 Positions	30º /36º
	104B04	4 Positions	30º /36º
	105B05	5 Positions	30º
	106B06	6 Positions	30º /36º
	107B07	7 Positions	30º /36º
	108B08	8 Positions	30º /36º
	109B09	9 Positions	30º /36º
	110B10	10 Positions	30º /36º
	111B11	11 Positions	30º
	112B12	12 Positions	30º

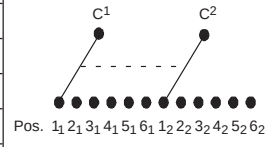
SP MODELS SCHEMATIC



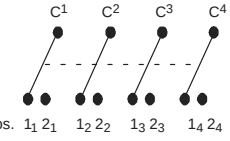
3P MODELS SCHEMATIC



DP MODELS SCHEMATIC



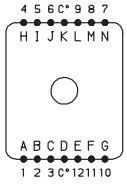
4P MODELS SCHEMATIC



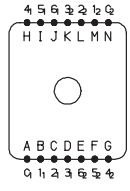
NO. POLES	MODEL NO.	SWITCH FUNCTION	INDEX
DP	206S	6 Positions No Stop	30º
	205S	5 Position No Stop	36º
	202B02	2 Positions	30º /36º
	203B03	3 Positions	30º /36º
	204B04	4 Positions	30º /36º
	205B05	5 Positions	30º /36º
	206B06	6 Positions	30º
3P	303S	3 Positions No Stop	30º /36º
	302B02	2 Positions	30º /36º
	303B03	3 Positions	30º /36º
4P	402S	3 Positions No Stop	30º /36º
	402B02	2 Positions	30º /36º

22.5º Term.	30º Term.	36º Term.	Pos.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E,J	L,N	M,N	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
F,I	D	H	1		•		•		•		•		•		•				•
D,K	B	D	2			•	•			•	•			•	•			•	•
A,N	I	A	4					•	•	•	•					•	•	•	•
B	J	J	8									•	•	•	•	•	•	•	•
—	K	C	$\overline{1}$	•		•		•		•		•		•		•		•	
—	H	K	$\overline{2}$	•	•			•	•			•	•			•	•		
—	A	B	$\overline{4}$	•	•	•	•					•	•	•	•				
—	C	I	$\overline{8}$	•	•	•	•	•	•	•	•								

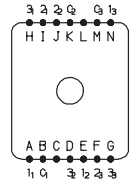
30 INDEXING ANGLE PCB LAYOUT



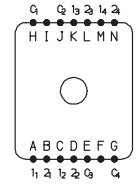
1 POLE



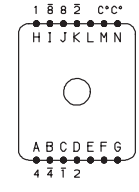
2 POLES



3 POLES

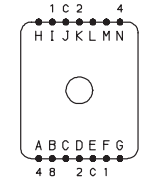


4 POLES



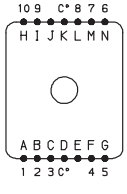
BCD + COMPLEMENTS

22.5 INDEXING ANGLE PCB LAYOUT

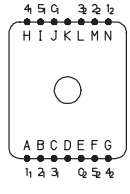


BCD ONLY

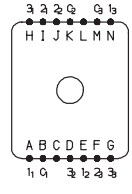
36 INDEXING ANGLE PCB LAYOUT



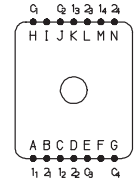
1 POLE



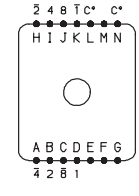
2 POLES



3 POLES



4 POLES

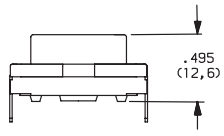


BCD + COMPLEMENTS

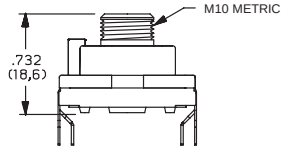
NOTE: Layout view from component side.

MOUNTING STYLE

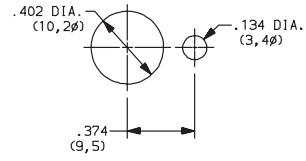
SD (STD.) WITHOUT BUSHING



AD (STD.) WITH BUSHING

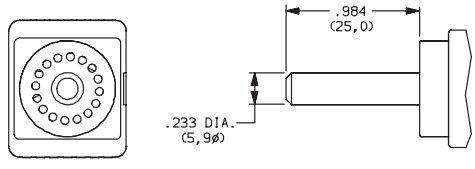


PANEL MOUNTING

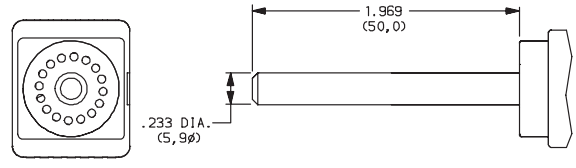


ACTUATOR

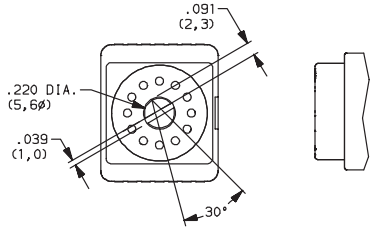
25 (STD.) 0,25 mm (.984)



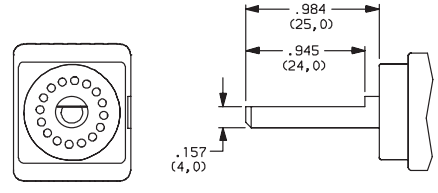
50 0,50 mm (1.97)



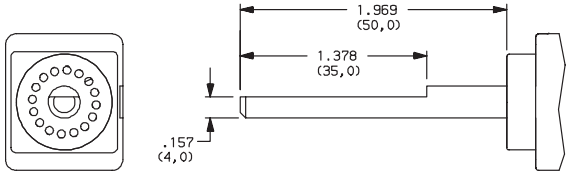
F (STD.) SCREWDRIVER SLOT



M25 FLAT SHAFT



M50 FLAT SHAFT



CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
S (STD.)	SILVER	LOW LEVEL/DRY CIRCUIT	SWITCH: 150 mA maximum, 60 V nominal. POWER: 5 VA maximum. CARRY: 5 AMPS maximum.
G	GOLD	LOW LEVEL/DRY CIRCUIT OR POWER	SWITCH: 20 mA maximum, 25 V nominal. POWER: 0.5 VA maximum. CARRY: 1 AMP maximum.

Third Angle Projection

Dimensions are shown: IN (mm)
Dimensions subject to change

ООО «НИОКРсистемс» - это оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов. Реализуемая нашей компанией продукция насчитывает более полумиллиона наименований.

Благодаря этому наша компания предлагает к поставке практически не ограниченный ассортимент компонентов как оптовыми, мелкооптовыми партиями, так и в розницу.

Благодаря развитой сети поставщиков, помогаем в поиске и приобретении экзотичных или снятых с производства компонентов.

Наша компания это:

- Гарантия качества поставляемой продукции
- Широкий ассортимент
- Минимальные сроки поставок
- Техническая поддержка
- Подбор комплектации
- Индивидуальный подход
- Гибкое ценообразование
- Работаем по 275 ФЗ

ООО «НИОКР СИТЕМС»
Москва, 125362, Россия, ул. Вишневая, д. 9, к. 1, Блок 104 а и 104 в

Телефон: 8 (495) 268-14-82
Email: n@nsistems.ru

ИНН: 7735154786
ОГРН: 1167746717709