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*
- *RoHS Compliant*

Typical Applications

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

Electrical Data

	Silver	Gold
SWITCHING MODE:	BBM	BBM
MAX. SWITCHING POWER	5 VA	0.5 VA
MAX. SWITCHING CURRENT:	150 mA	20 mA
MAX. CARRYING CURRENT:	5 A	1 A
NOMINAL VOLTAGE AT 50 Hz	60 V	25 V
CONTACT RESISTANCE:	< 150 mΩ	< 150 mΩ
DIELECTRIC STRENGTH AT 50 Hz BETWEEN CONTACTS AND GROUND TERMINALS:	500 V r	500 V r
INSULATION RESISTANCE BETWEEN CONTACTS OR CONTACTS AND FRAME (500 V =):	10^9 Ω	10^9 Ω
NO. OF OPERATIONS:	10,000	10,000
BOUNCE:	< 5 ms	< 5 ms

Environmental Data

OPERATING TEMPERATURE:	–20°C to + 70°C	–20°C to + 70°C
STORAGE TEMPERATURE:	–40°C to + 85°C	–40°C to + 85°C

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

Mechanical Data

MAX. NO. OF BANKS: 1.

OPERATING TORQUE: 5 Ncm±20%.

END STOP TORQUE: 50 Ncm. minimum

STOP: With/without or adjustable

MOUNTING: By fixed index 9.5 mm (0.374) of center, for bushing mount only

Materials

BUSHING/HOUSING: PETP Thermoplastic

STATIONARY CONTACTS & TERMINALS: Nickel Plated Brass with additional plating of Gold or Silver.

ROTOR: Gold or Silver plated Brass or PCB.

CODING PLATE: PA thermoplastic

ACTUATOR: Polysulfon thermoplastic

HARDWARE: Stop pin: Aluminum. Ball & Spring: Stainless steel. Washer: PA. Nut: Brass.

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-12. For additional options not shown in catalog, consult Customer Service Center.

Designation
RTA

Termination
P With PC Thru-hole
H Horizontal with PC Thru-hole

Indexing
2 22.5 index (coded only)
3 30° index (12 positions max.)
4 36° index (10 positions max.)

Switch Function

1W12	SP, 30° Index, 12 pos. no stop	**4S02**	4P, 30° /36° Index, 2 pos.
1W10	SP, 36° Index, 10 pos. no stop	**EW10**	Direct + complement, 36° Index, no stop
1S02	SP, 30° /36° Index, 2 pos.	**EW12**	Direct + complement, 30° Index, no stop
1S03	SP, 30° /36° Index, 3 pos.	**ES_ _**	Direct + complement, 30°/36° Index, with stop (specify stop position)
1S04	SP, 30° /36° Index, 4 pos.		
1S05	SP, 30° /36° Index, 5 pos.		
1S06	SP, 30° /36° Index, 6 pos.		
1S07	SP, 30° /36° Index, 7 pos.		
1S08	SP, 30° /36° Index, 8 pos.		
1S09	SP, 30° /36° Index, 9 pos.		
1S10	SP, 30° /36° Index, 10 pos.		
1S11	SP, 30° Index, 11 pos.		
1S12	SP, 30° Index, 12 pos.		
2S02	DP, 30° /36° Index, 2 pos.		
2S03	DP, 30° /36° Index, 3 pos.		
2S04	DP, 30° /36° Index, 4 pos.		
2S05	DP, 30° /36° Index, 5 pos.		
2S06	DP, 30° Index, 6 pos.		

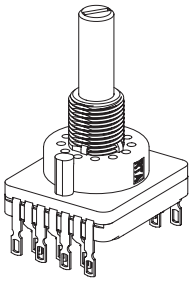
Mounting Style
W Without bushing
R 3/8-32 Threaded Bushing
M M10x.75 Metric Threaded Bushing
A 3/8-32 Threaded Bushing with Offset Bracket
B M10x.75 Metric Threaded Bushing with Offset Bracket
C 3/8-32 Threaded Bushing with Straight Bracket
D M10x.75 Metric Threaded Bushing with Straight Bracket

Actuator (max.)
25N .984 (25,0) with screwdriver slot
50N 1.97 (50,0) with screwdriver slot
FLS Flush shaft with screwdriver slot and position indicator
25F .984 (25,0) Shaft with flat
06F .236 (6,0) Shaft with flat

Contact Material
S Silver plated, matte-tin terminal
P Gold plated, matte-tin terminal

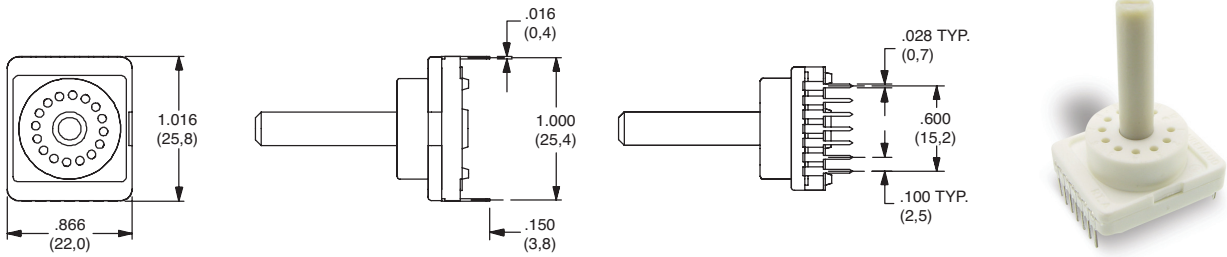
DESIGNATION

RTA

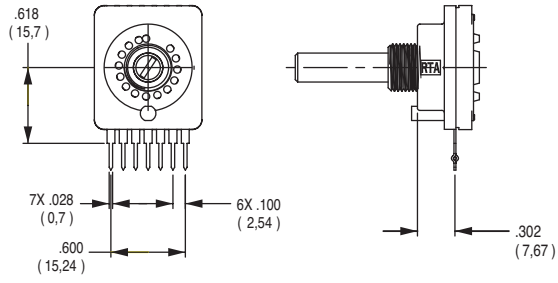


TERMINATION

P WITH PC PINS



H Horizontal with PC Thru-hole



Note: "H" termination only available with the following options:
1. With A or B mounting styles
2. 36° degree indexing
3. Up to 5 positions max

INDEXING

2 22.5 index, 16 positions max.

3 30 index, 12 positions max.

4 36 index, 10 positions max.

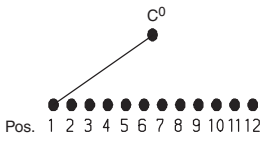
Both commons must be connected by user to ground.

RTA Series
1-4 Poles Coded Rotary Switches

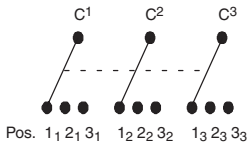
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION	INDEX
SP	1W12	12 Positions No Stop	30°
	1W10	10 Positions No Stop	36°
	1S02	2 Positions	30°/36°
	1S03	3 Positions	30°/36°
	1S05	5 Positions	30°/36°
	1S06	6 Positions	30°/36°
	1S08	8 Positions	30°/36°
	1S09	9 Positions	30°/36°
	1S10	10 Positions	30°/36°
	1S11	11 Positions	30°
	1S12	12 Positions	30°

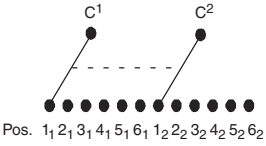
SP MODELS SCHEMATIC



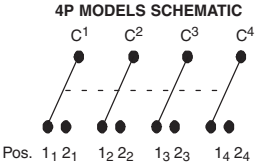
3P MODELS SCHEMATIC



DP MODELS SCHEMATIC



4P MODELS SCHEMATIC

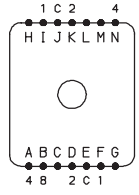


NO. POLES	MODEL NO.	SWITCH FUNCTION	INDEX
DP	2W05	5 Positions No Stop	30°/36°
	2W06	6 Positions No Stop	30°
	2S02	2 Positions	30°/36°
	2S03	3 Positions	30°/36°
	2S04	4 Positions	30°/36°
	2S05	5 Positions	30°/36°
	2S06	6 Positions	30°
4P	4S02	2 Positions	30°/36°

MODEL NO.	SWITCH FUNCTION	INDEX
EW10	Direct + complement, No stop	36°
EW12	Direct + complement, No stop	30°
ES_ _	Direct + complement, with stop (specify stop position)	30° & 36°

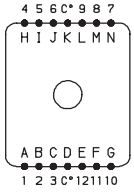
22.5° Term.	30° Term.	36° Term.	Pos.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E,J	M,N	L,N	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
F,I	H	D	1		•		•		•		•		•		•		•		•
D,K	D	B	2			•	•			•	•			•	•			•	•
A,N	A	I	4					•	•	•	•					•	•	•	•
B	J	J	8									•	•	•	•	•	•	•	•
—	C	K	$\overline{1}$	•		•		•		•		•		•		•		•	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

Indexing Option Code 2, 22.5 INDEXING ANGLE PCB LAYOUT

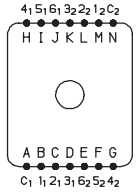


BCD ONLY

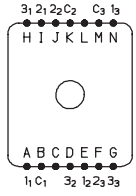
Indexing Option Code 3, 30 INDEXING ANGLE PCB LAYOUT



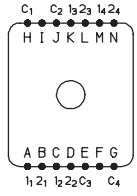
1 POLE



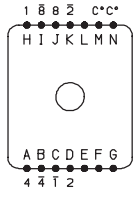
2 POLES



3 POLES

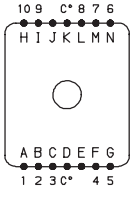


4 POLES

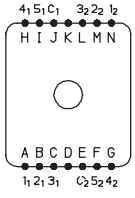


BCD + COMPLEMENTS

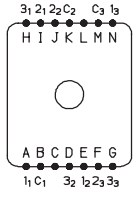
Indexing Option Code 4, 36 INDEXING ANGLE PCB LAYOUT



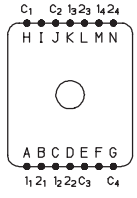
1 POLE



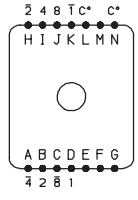
2 POLES



3 POLES



4 POLES



BCD + COMPLEMENTS

NOTE: Layout view from component side.

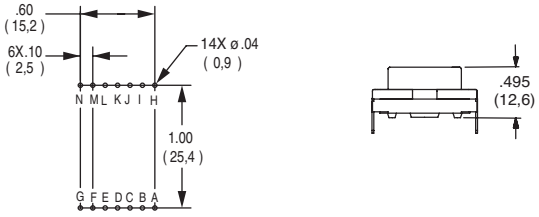
Common terminals that are in locations A-G are not connected to common terminals that are in locations H-N. For 7-12 position output customer must tie these commons together.

Third Angle Projection

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

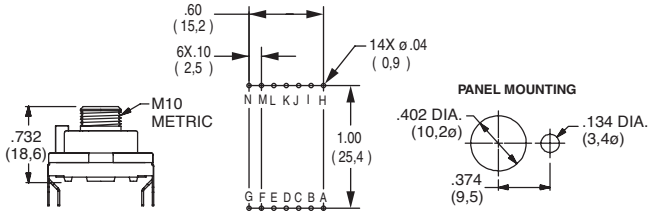
MOUNTING STYLE

W WITHOUT BUSHING



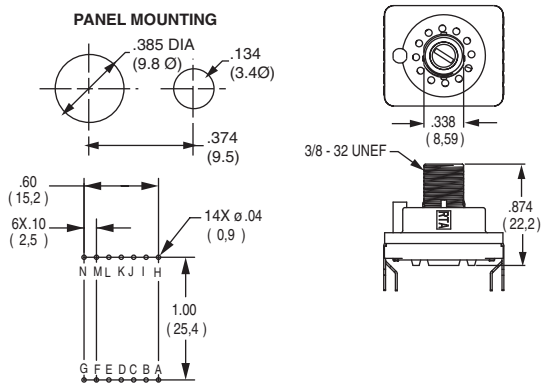
Note: W mounting style not available with H termination.

M M10 x .75 MERTIC THREADED BUSHING



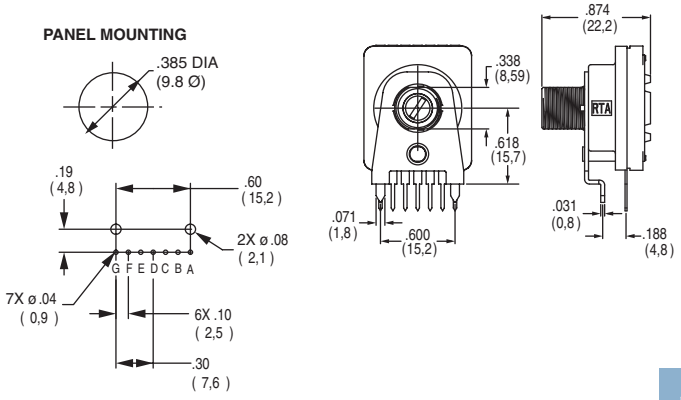
Note: M mounting style not available with H termination.

R 3/8-32 THREADED BUSHING



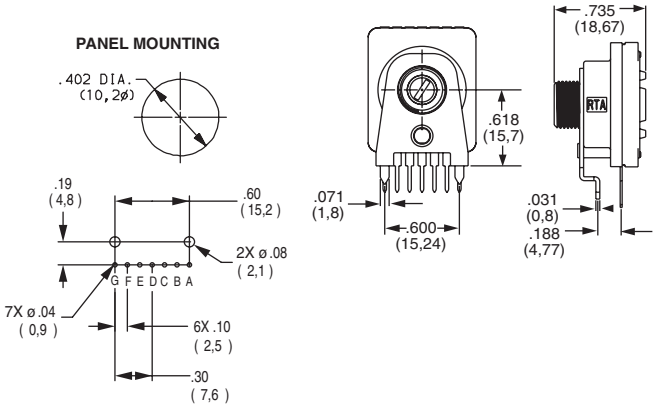
Note: R mounting style not available with H termination.

A 3/8-32 THREADED BUSHING WITH BRACKET



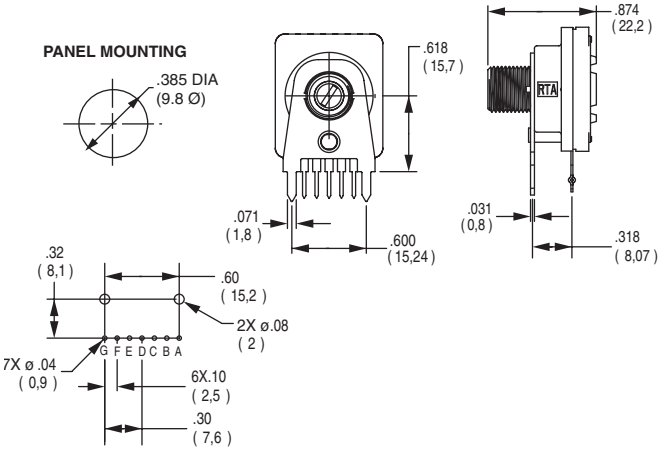
Note: A mounting style only available with H termination.

B M10 x .75 METRIC THREADED BUSHING WITH BRACKET

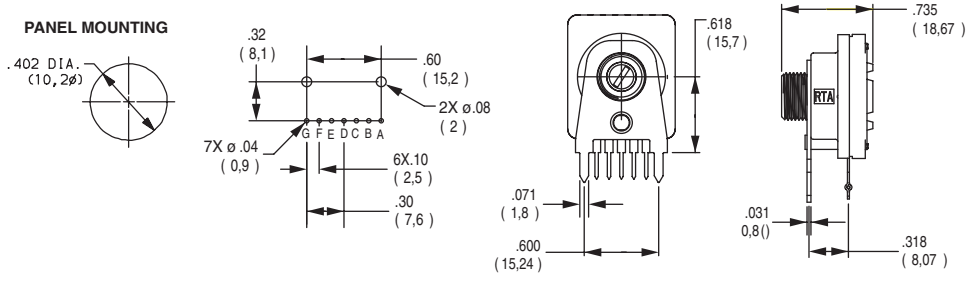


Note: B mounting style only available with H termination.

C 3/8-32 THREADED BUSHING WITH STRAIGHT BRACKET



D M10 x .75 METRIC THREADED BUSHING WITH STRAIGHT BRACKET



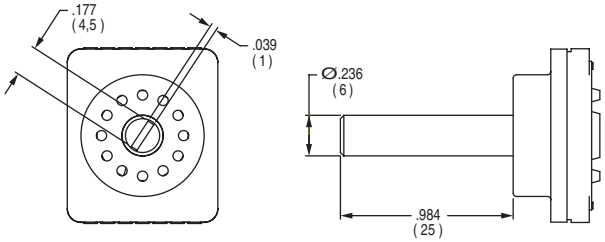
Third Angle Projection

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

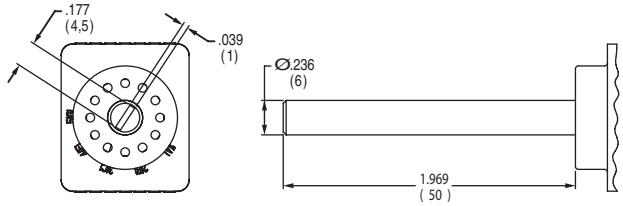
RTA Series
1-4 Poles Coded Rotary Switches

ACTUATOR

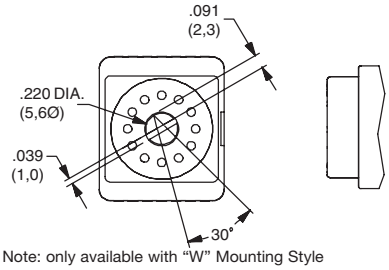
25N .984 (25,0) WITH SCREWDRIVER SLOT



50N 1.97 (50,0) WITH SCREWDRIVER SLOT

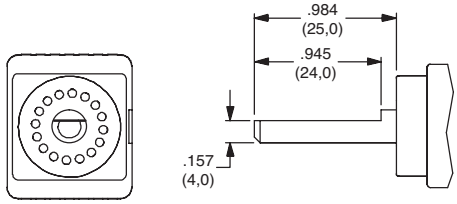


FLS FLUSH SHAFT WITH SCREWDRIVER SLOT AND POSITION INDICATOR



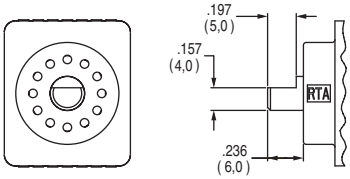
Note: only available with "W" Mounting Style

25F .984 (25,0) SHAFT WITH FLAT



Note: only available with "W" Mounting Style

06F .236 (6,0) SHAFT WITH FLAT



Note: only available with "W" Mounting Style

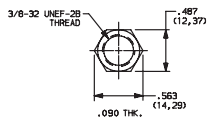
CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATING	
S	SILVER	LOW LEVEL/DRY CIRCUIT	SWITCH: 150 mA MAXIMUM, 60 V NOMINAL. POWER: 5 VA MAXIMUM. CARRY-5 AMPS MAXIMUM.
P	GOLD	LOW LEVEL/DRY CIRCUIT OR POWER	SWITCH: 20 mA MAXIMUM, 25 V NOMINAL. POWER: 0.5 VA MAXIMUM. CARRY: 1 AMP MAXIMUM.

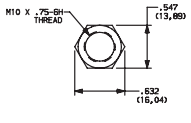
* Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.

AVAILABLE HARDWARE

Mounting Nuts



PART NO.
472706201
Standard

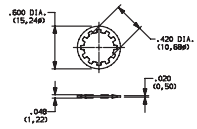


PART NO.
495100201
Metric

Stop pins

PART NO.
Y200300200PCH

Lockwasher



PART NO.
472800202

NOTE: Additional nuts and lockwashers available separately, see section "Technical Data and Additional Hardware".

Third Angle Projection

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

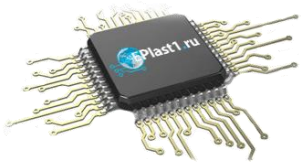
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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