

CRD Series

10mm DIP Coded Rotary Switches



H

DIP

Features/Benefits

- **Process sealed – withstands soldering and cleaning**
- **Thru-hole and surface mount models**
- **Crisp, positive detent ensures actuation**
- **Computer and peripherals**
- **RoHS compliant**

Typical Applications

- **Address switching applications**
- **Data storage devices**
- **Computer and peripherals**
- **Instrumentation**



Specifications

CONTACT RATING: 0.4 V AC, DC 20 V max.
ELECTRICAL LIFE: 20,000 steps min. @ 5 V DC 10 mA.
MECHANICAL LIFE: 30,000 steps min.
CONTACT RESISTANCE: 100 milliohms max. initial @ 2 V DC 10 mA.
INSULATION RESISTANCE: 1000 megohms min. @ 100 V DC
DIELECTRIC STRENGTH: 300 V AC for 1 minute.
OPERATING TEMPERATURE: -20°C to 85°C.
STORAGE TEMPERATURE: -40°C to 85°C.
OPERATING FORCE: 1000 grams max.
PACKAGING: Switches supplied in anti-static tubes in full quantities only. This may affect order quantity. Surface mount models with MO actuators available in tape and reel, 500 pieces per reel.

Materials

COVER: PPS (black)
HOUSING: PPS (black)
ACTUATOR: PA 6T M0 actuator option; PBT L1 and W1 actuator option.
CONTACTS: Beryllium Copper with Gold over Nickel plate
TERMINALS: Brass with Gold Nickel plate.

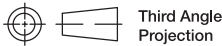
Note: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

How To Order

Our easy Build-A Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box.

Switch Function	Actuator	Terminations	Contact /Terminal Material	Packaging
CRD10R 10 position, BCD	M0 Flush, screwdriver slot	A Right angle, PC thru-hole	B Gold/Gold	(None) Tube
CRD10C 10 position, BCD complement	L1* Extended, screwdriver slot	C PC Thru-hole		R Tape & Reel
CRD16R 16 position, Hexadecimal	W1* Wheel	S Surface Mount		(M0 actuator only)
CRD16C 16 position, Hexadecimal complement				

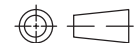
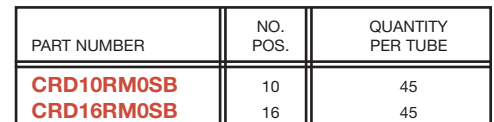
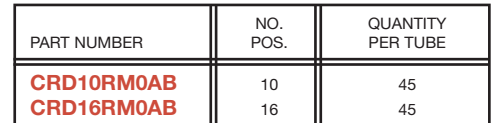
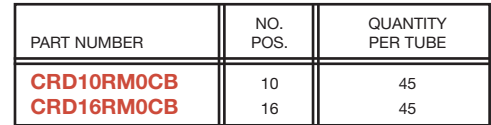
* Note - L1 and W1 actuators are not available in termination "S"



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

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DIP



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SWITCH FUNCTION



CRD10R

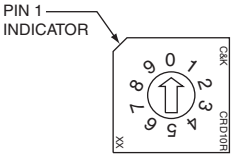
10 POSITION, BCD
ACTUATOR COLOR: RED

POS.	0	1	2	3	4	5	6	7	8	9
C	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●
2			●			●			●	
4				●			●			●
8					●			●		

CRD10C

10 POSITION, BCD COMPLEMENT
ACTUATOR COLOR: ORANGE

POS.	0	1	2	3	4	5	6	7	8	9
C	●	●	●	●	●	●	●	●	●	●
1	●				●			●		
2		●				●			●	
4	●		●				●			●
8	●		●		●			●		



CRD16R

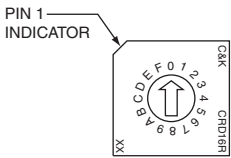
16 POSITION, HEXADECIMAL
ACTUATOR COLOR: BLACK

POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●		●		●		●
2			●			●			●			●			●	
4				●			●			●			●			●
8					●			●			●			●		

CRD16C

16 POSITION, HEXADECIMAL COMPLEMENT
ACTUATOR COLOR: WHITE

POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1	●				●			●			●			●		
2		●				●			●			●			●	
4	●		●				●			●			●			●
8	●		●		●			●			●			●		

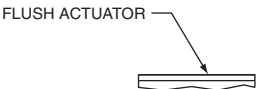
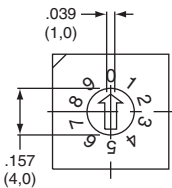


ACTUATOR



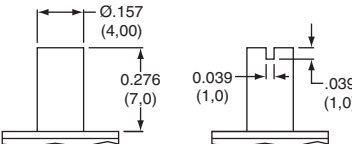
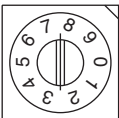
M0

(STD.) FLUSH WITH SCREWDRIVER SLOT



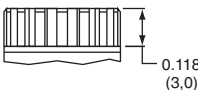
L1*

EXTENDED WITH SCREWDRIVER SLOT



W1*

WHEEL



NOTE: Designed for #0 Phillips screwdriver.

* L1 and W1 actuators are not available in termination "S"



Third Angle
Projection



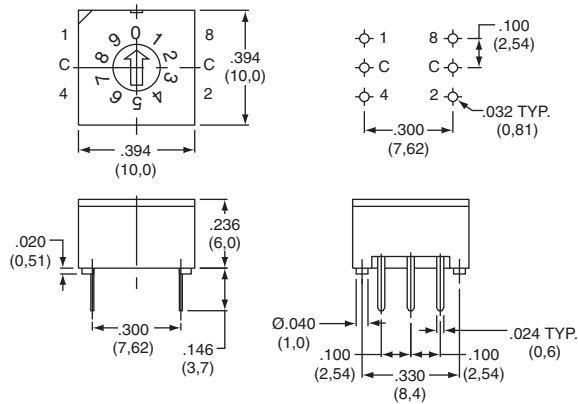
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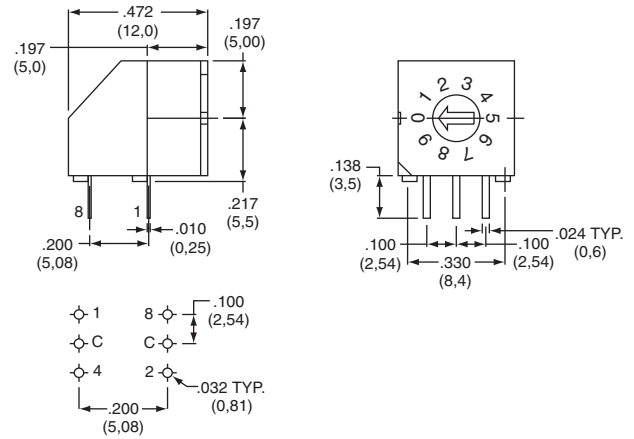
TERMINATIONS



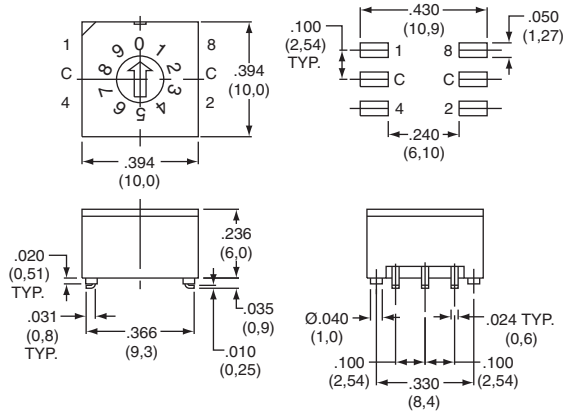
C PC, THRU-HOLE



A RIGHT ANGLE, PC THRU-HOLE



S SURFACE MOUNT



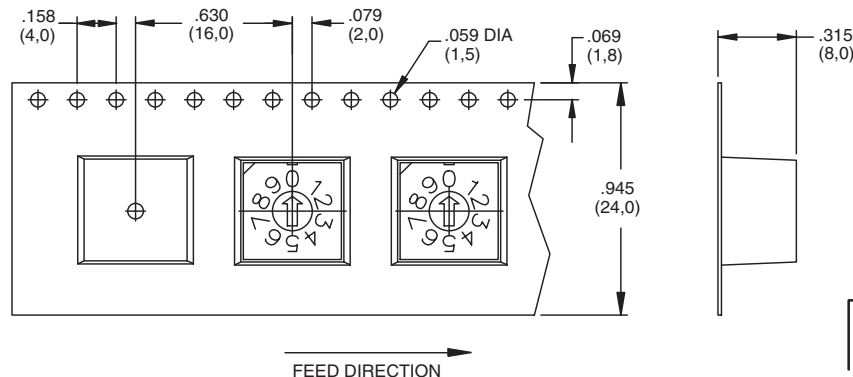
CONTACT MATERIAL



OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT MATERIAL	TERMINAL PLATING	RATING	
B	YES	YES	GOLD	GOLD	LOW LEVEL/DRY CIRCUIT	0.4 VC MAX. @ 20 V AC or DC MAX.

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

TAPE & REEL



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