

# CRD Series 10mm DIP Coded Rotary Switches



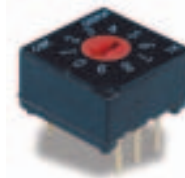
DIP I

## 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.

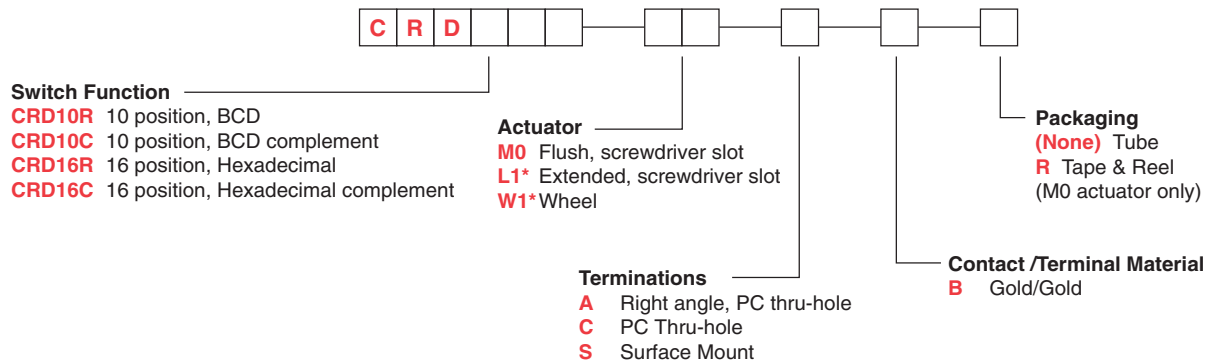
## Materials

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.



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



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

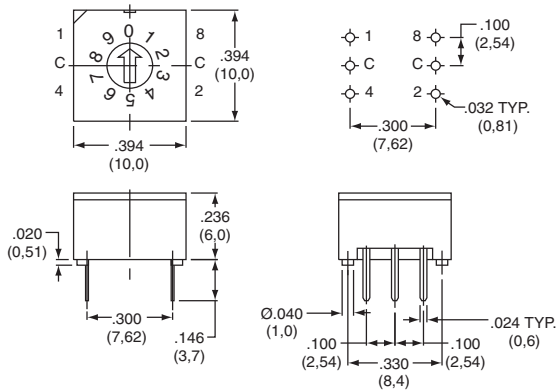
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## SWITCHES WITH STANDARD OPTIONS



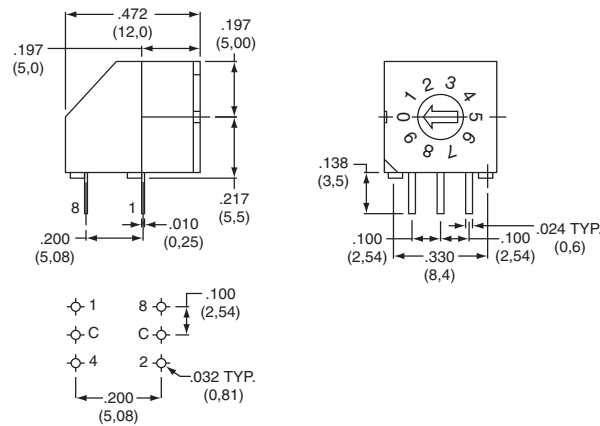
H  
DIP

### PC Mount



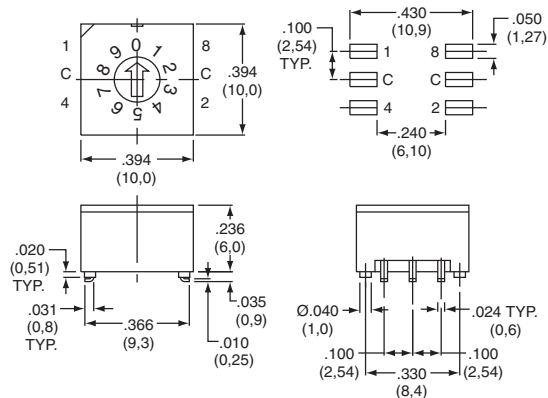
PART NUMBER	NO. POS.	QUANTITY PER TUBE
<b>CRD10RM0CB</b>	10	45
<b>CRD16RM0CB</b>	16	45

### Right Angle Mount



PART NUMBER	NO. POS.	QUANTITY PER TUBE
<b>CRD10RM0AB</b>	10	45
<b>CRD16RM0AB</b>	16	45

### Surface Mount



PART NUMBER	NO. POS.	QUANTITY PER TUBE
<b>CRD10RM0SB</b>	10	45
<b>CRD16RM0SB</b>	16	45



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# CRD Series 10mm DIP Coded Rotary Switches

## SWITCH FUNCTION



DIP H

### CRD10R

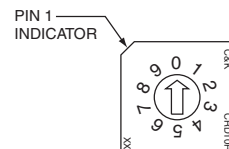
10 POSITION, BCD  
ACTUATOR COLOR: RED

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

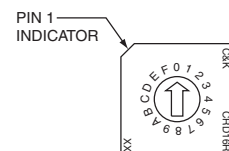
16 POSITION, HEXADECIMAL  
ACTUATOR COLOR: BLACK

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	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

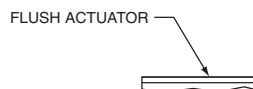
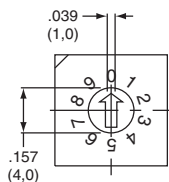


## ACTUATOR



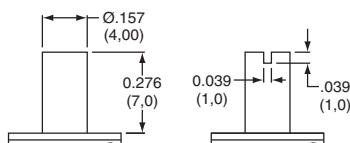
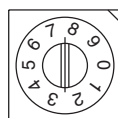
### M0

(STD.) FLUSH WITH SCREWDRIVER SLOT



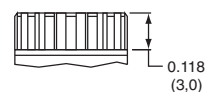
### L1\*

EXTENDED WITH SCREWDRIVER SLOT



### W1\*

WHEEL



**NOTE:** Designed for #0 Phillips screwdriver.

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



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[www.ck-components.com](http://www.ck-components.com)

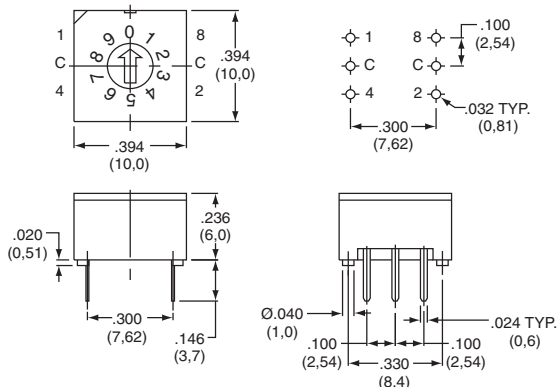
# CRD Series 10mm DIP Coded Rotary Switches

## TERMINATIONS

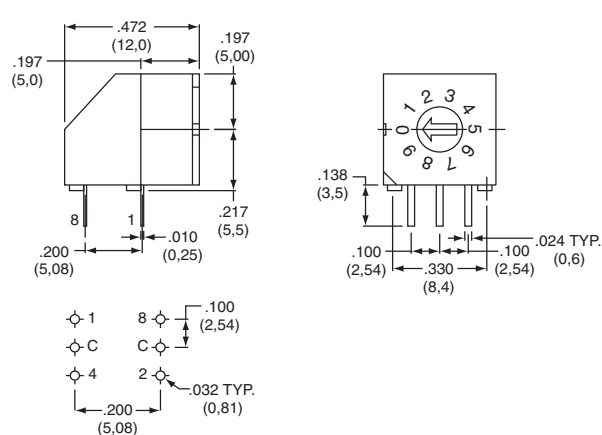


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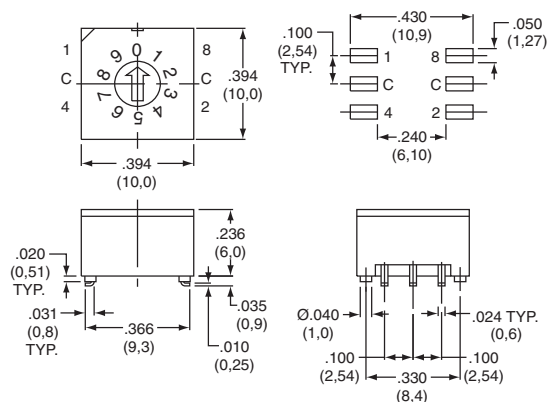
**C** PC, THRU-HOLE



**A** RIGHT ANGLE, PC THRU-HOLE



**S** SURFACE MOUNT



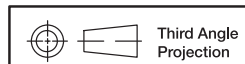
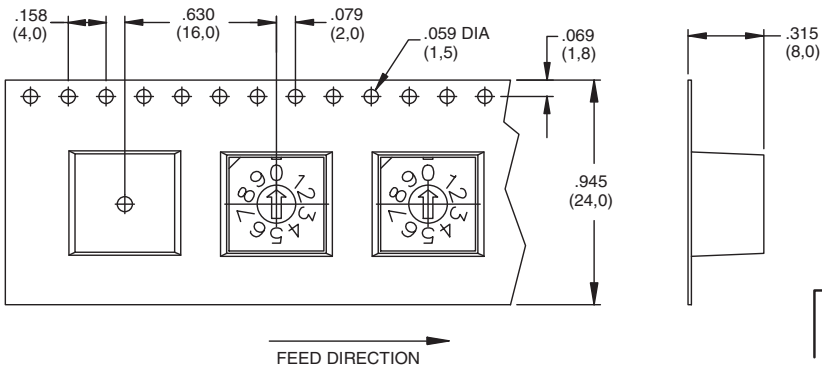
## CONTACT MATERIAL



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



Third Angle Projection  
Dimensions are shown: Inch (mm)  
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