

# CRD Series 10mm DIP Coded Rotary Switches



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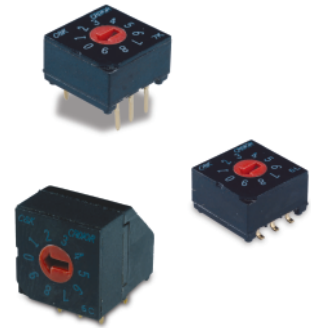
DIP

## 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.

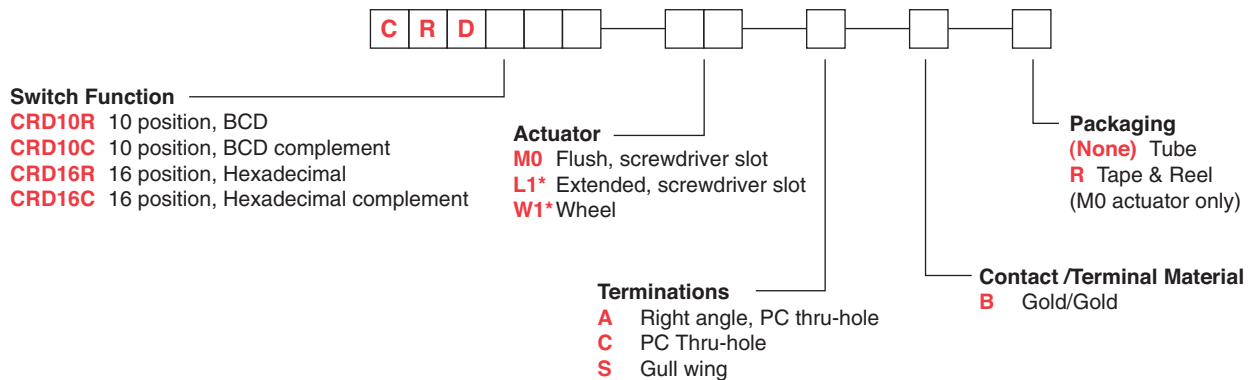
## Materials

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.

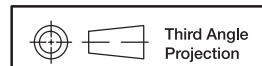
**Note:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

## How To Order

The 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



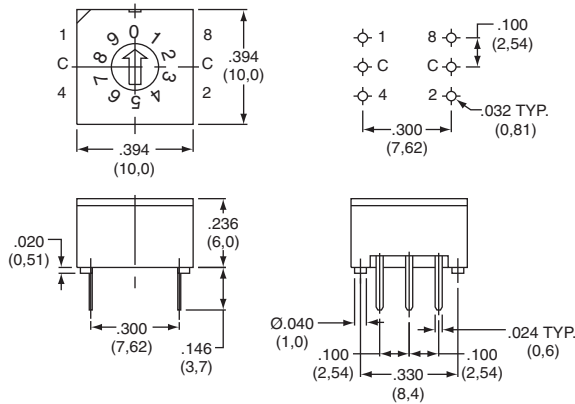
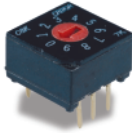
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## SWITCHES WITH STANDARD OPTIONS



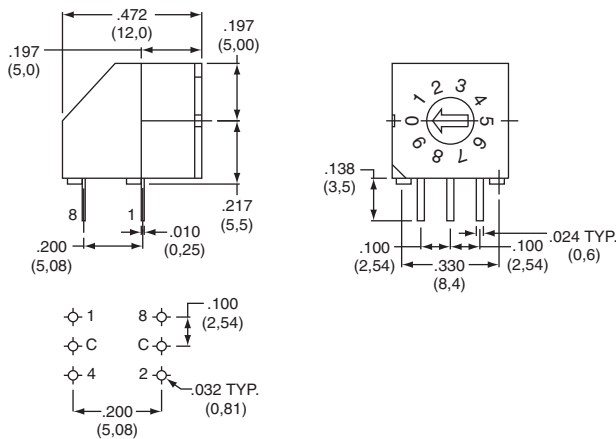
DIP

### PC Mount



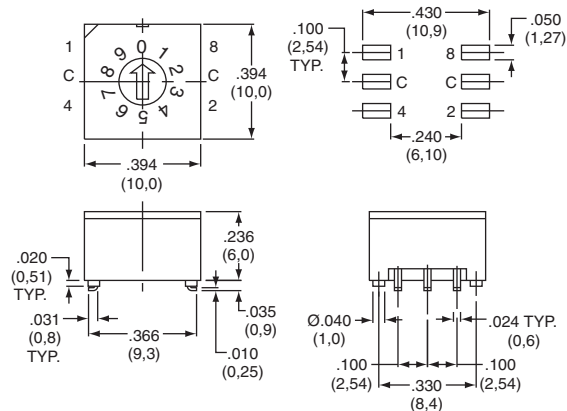
PART NUMBER	NO. POS.	QUANTITY PER TUBE
<b>CRD10RM0CB</b>	10	45
<b>CRD16RM0CB</b>	16	45

### Right Angle Mount

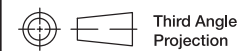


PART NUMBER	NO. POS.	QUANTITY PER TUBE
<b>CRD10RM0AB</b>	10	45
<b>CRD16RM0AB</b>	16	45

### Surface Mount



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



Third Angle Projection

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



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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					●		●		●	●

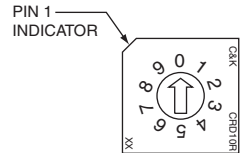
Switches ship and to be solder processed in position "0"

### CRD10C

10 POSITION, BCD COMPLEMENT  
ACTUATOR COLOR: ORANGE

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

Switches ship and to be solder processed in position "7"



### 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							●	●	●	●	●	●	●	●	●	●

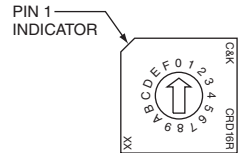
Switches ship and to be solder processed in position "0"

### CRD16C

16 POSITION, HEXADECIMAL COMPLEMENT  
ACTUATOR COLOR: WHITE

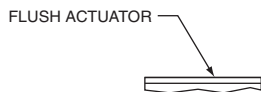
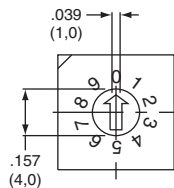
POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1	●				●				●					●		●
2	●	●				●				●	●				●	●
4	●	●	●						●	●	●				●	●
8	●	●	●	●					●	●	●	●	●	●	●	●

Switches ship and to be solder processed in position "F"



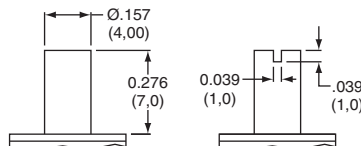
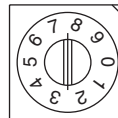
## ACTUATOR

(STD.) FLUSH WITH SCREWDRIVER SLOT



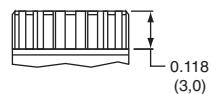
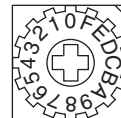
### L1\*

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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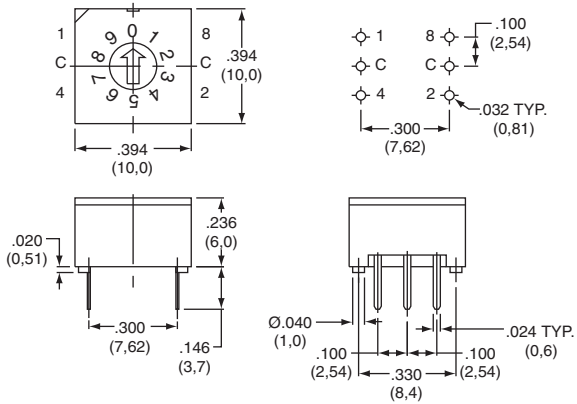


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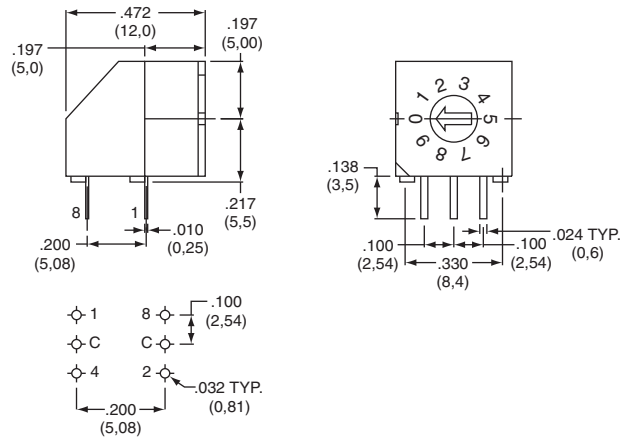
## TERMINATIONS



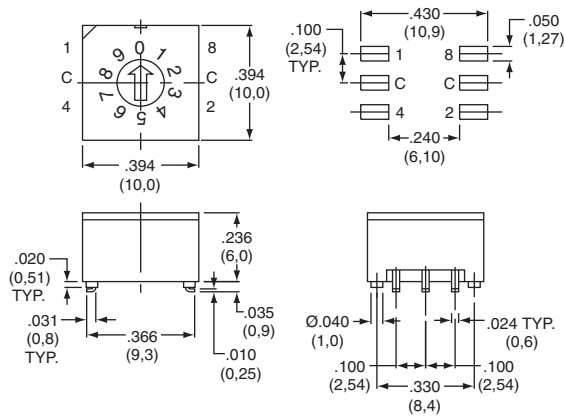
### C PC, THRU-HOLE



### A RIGHT ANGLE, PC THRU-HOLE



### S SURFACE MOUNT



### M0

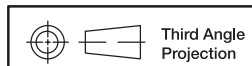
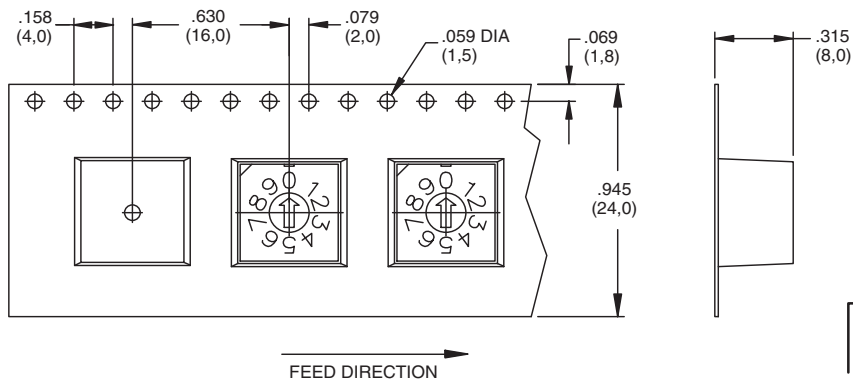
## CONTACT MATERIAL



OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT MATERIAL	TERMINAL PLATING	RATING	
<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

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