

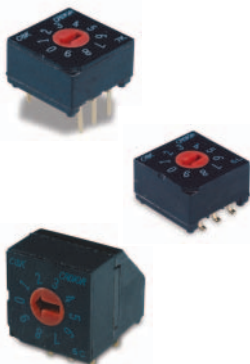
# CRD Series

## 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.

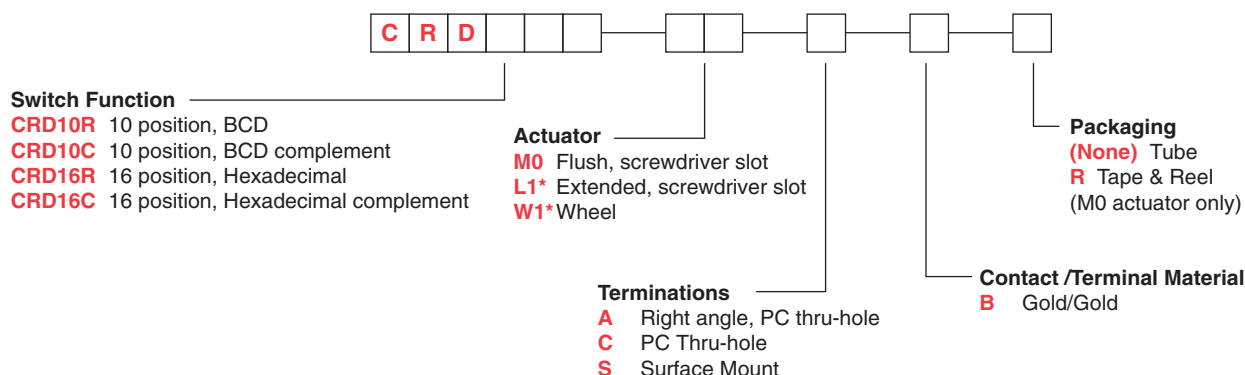
CONTACTS: Beryllium Copper with Gold over Nickel plate

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

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"

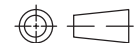
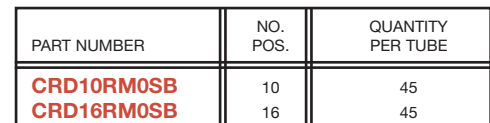
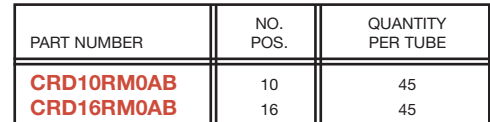
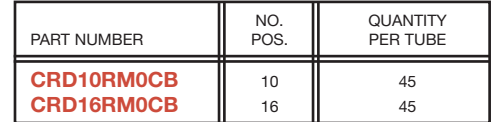


Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



## Н

## DIP



**www.ck-components.com**

# CRD Series

## 10mm DIP Coded Rotary Switches

### 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    |   |   |   |   |   |   |   |   | ● | ● |

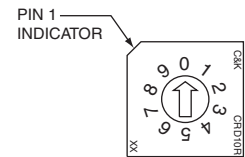
Switches ship and to be solder processed in position "0"

#### 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    |   |   |   |   |   |   |   |   | ● | ● | ● | ● | ● | ● | ● | ● |

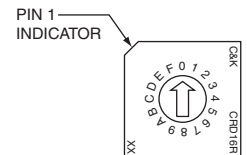
Switches ship and to be solder processed in position "0"

#### 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    | ● | ● | ● | ● | ● | ● | ● | ● |   |   |   |   |   |   |   |   |

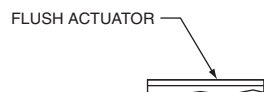
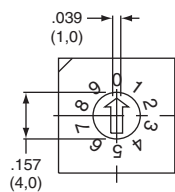
Switches ship and to be solder processed in position "F"



### ACTUATOR

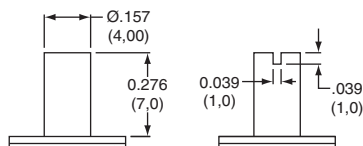
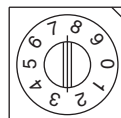
#### M0

(STD.) FLUSH WITH SCREWDRIVER SLOT



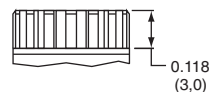
#### L1\*

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



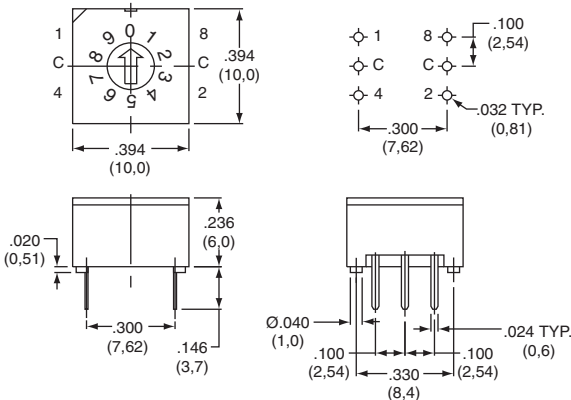
Dimensions are shown: Inch (mm)  
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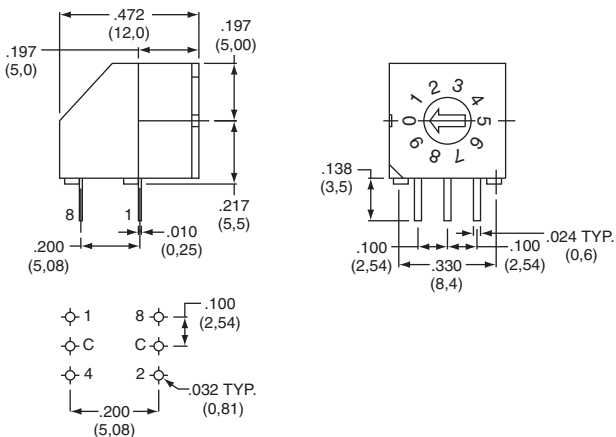
## TERMINATIONS



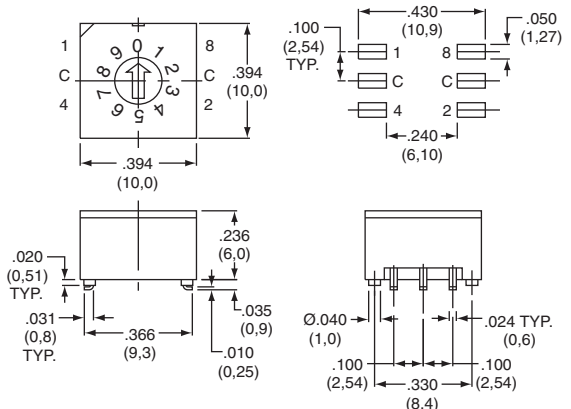
### C PC, THRU-HOLE



### A RIGHT ANGLE, PC THRU-HOLE



### S SURFACE MOUNT



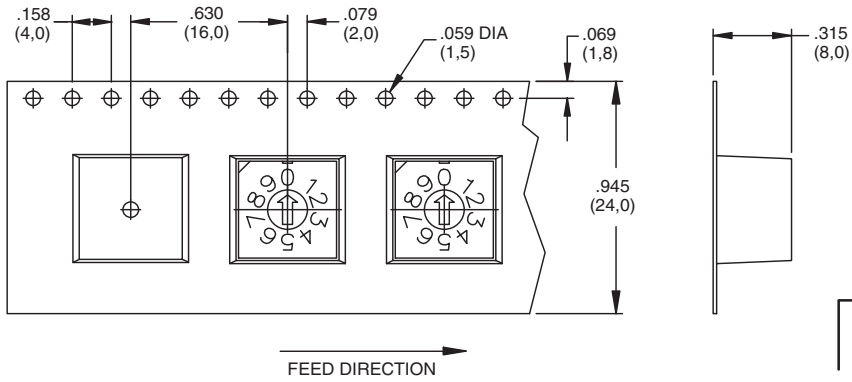
## CONTACT MATERIAL



| OPTION CODE | RoHS COMPLIANT* | RoHS COMPATIBLE* | CONTACT MATERIAL | TERMINAL PLATING | RATING                |                                  |
|-------------|-----------------|------------------|------------------|------------------|-----------------------|----------------------------------|
| <b>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



Dimensions are shown: Inch (mm)  
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