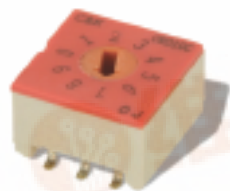


# C&K CRD Series 10mm DIP Coded Rotary Switches

[查询"CRD16CM0SBR"供应商](#)



## Features/Benefits

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

## 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: (PTH) PBT red; (SMT) PPA - red (UL 94V-0).

HOUSING: (PTH) PBT green; (SMT) PPA - natural (UL 94V-0).

ACTUATOR: 4/6 nylon PA-6T (UL 94V-0).

CONTACTS: Beryllium copper with gold plating.

TERMINALS: Brass with tin-lead plate.

RoHS, Version brass with gold plate over nickel plate.

**NOTE:** For the latest information regarding RoHS compliance, please go to:  
[www.ittcannon.com/rohs](http://www.ittcannon.com/rohs).

**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.

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

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



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

[www.ittcannon.com](http://www.ittcannon.com)

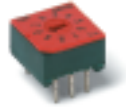
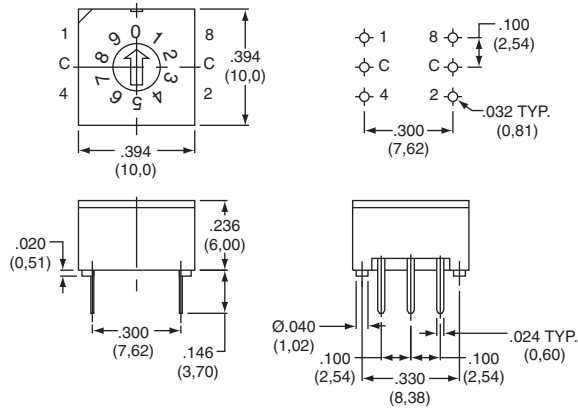
# C&K CRD Series 10mm DIP Coded Rotary Switches

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## SWITCHES WITH STANDARD OPTIONS

### PC Mount

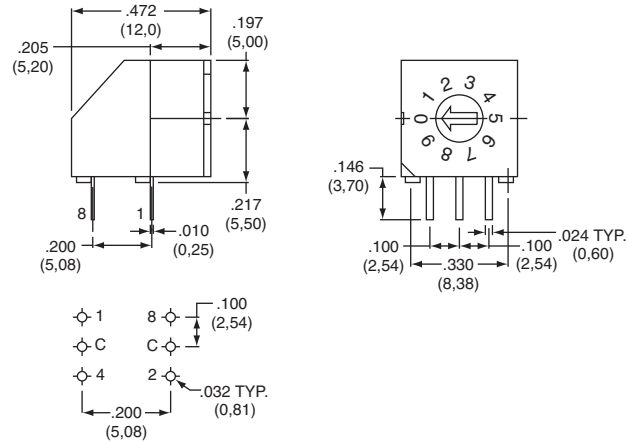
| PART NUMBER       | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| <b>CRD10RM0CK</b> | 10       | 45                |
| <b>CRD16RM0CK</b> | 16       | 45                |



CRD10RM0CK

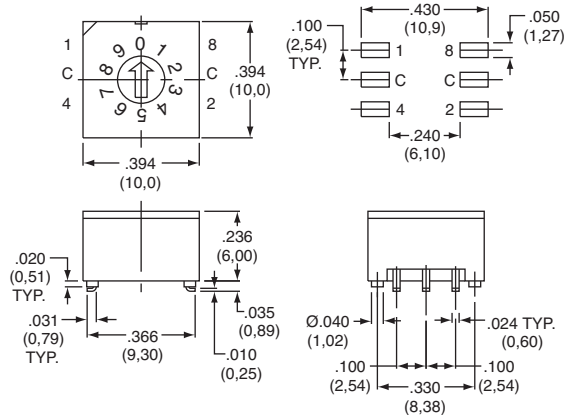
### Right Angle Mount

| PART NUMBER       | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| <b>CRD10RM0AK</b> | 10       | 35                |
| <b>CRD16RM0AK</b> | 16       | 35                |



### Surface Mount

| PART NUMBER       | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| <b>CRD10RM0SK</b> | 10       | 45                |
| <b>CRD16RM0SK</b> | 16       | 45                |



Third Angle  
Projection

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



# C&K CRD Series 10mm DIP Coded Rotary Switches

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## SWITCH FUNCTION



### CRD10R

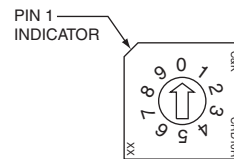
10 POSITION, BCD  
ACTUATOR COLOR: RED

### CRD10C

10 POSITION, BCD COMPLEMENT  
ACTUATOR COLOR: ORANGE

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

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



### CRD16R

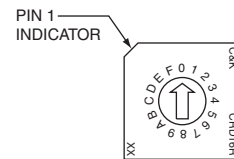
16 POSITION, HEXADECIMAL  
ACTUATOR COLOR: BLACK

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

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

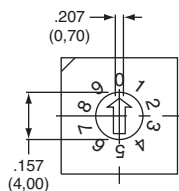


## ACTUATOR



### M0

(STD.) FLUSH WITH SCREWDRIVER SLOT

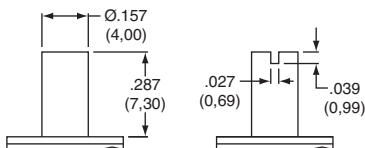
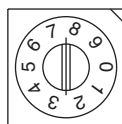


FLUSH ACTUATOR



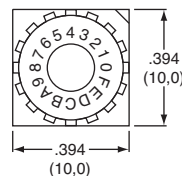
### L1\*

EXTENDED WITH SCREWDRIVER SLOT



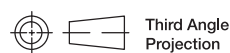
### W1\*

WHEEL



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

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



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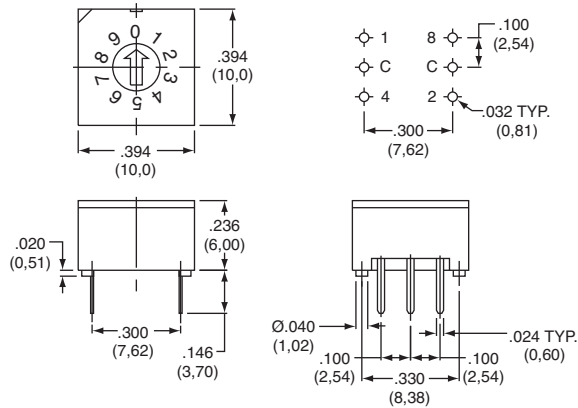
DIP

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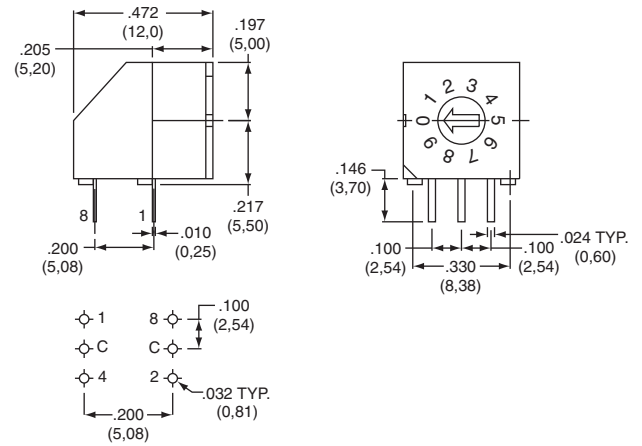
## TERMINATIONS



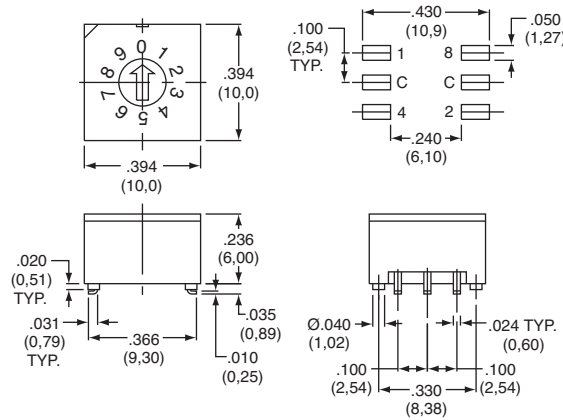
### C PC THRU-HOLE



### A RIGHT ANGLE, PC THRU-HOLE



### S SURFACE MOUNT



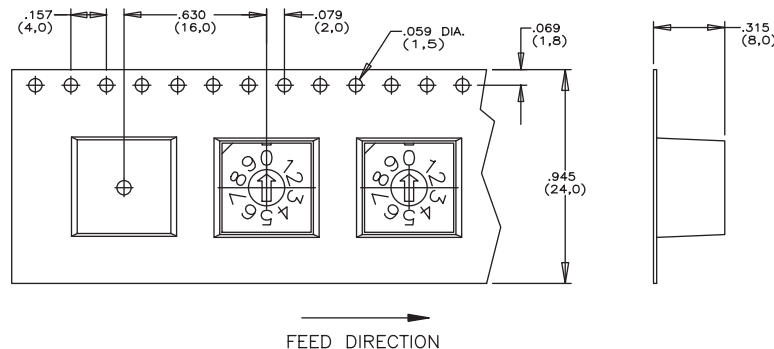
## CONTACT MATERIAL



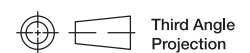
| OPTION CODE | RoHS COMPLIANT* | RoHS COMPATIBLE* | CONTACT MATERIAL | TERMINAL PLATING | RATING                |                                  |
|-------------|-----------------|------------------|------------------|------------------|-----------------------|----------------------------------|
| <b>K</b>    | NO              | YES              | GOLD             | TIN-LEAD         | 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



FEED DIRECTION



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

