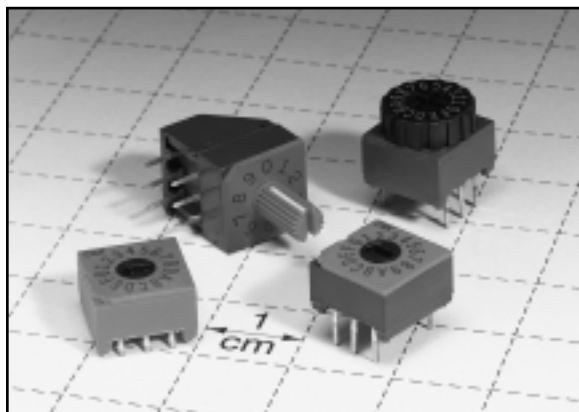


# CRD Series 10mm DIP Coded Rotary Switches



## Features/Benefits

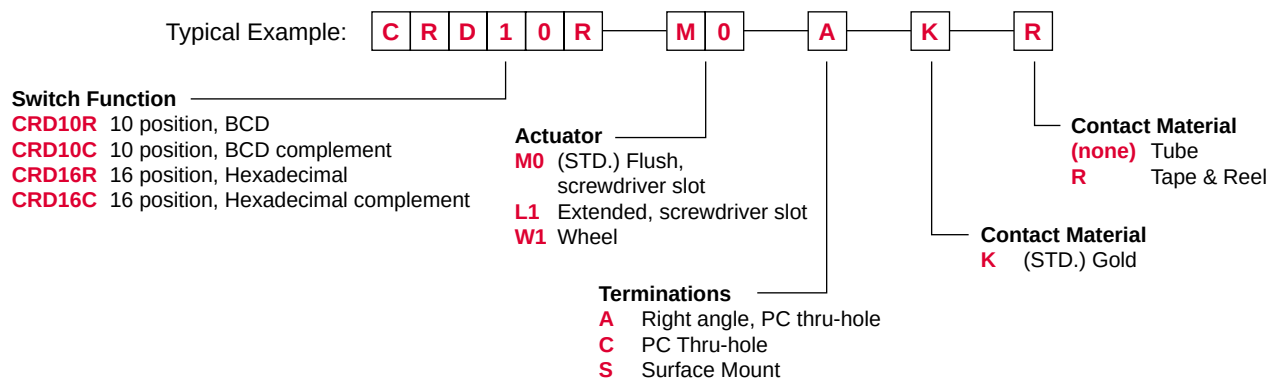
- *Process sealed – withstands soldering and cleaning*
- *Thru-hole and surface mount models*
- *Crisp, positive detent ensures actuation*

## Typical Applications

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

## 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. Switches with standard options are shown on page D-17. Available options are shown and described on pages D-18 and D-19. For additional options not shown in catalog, consult Customer Service Center.



## 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: Anti-static tube or tape & reel, 500 pieces per reel.

## Materials

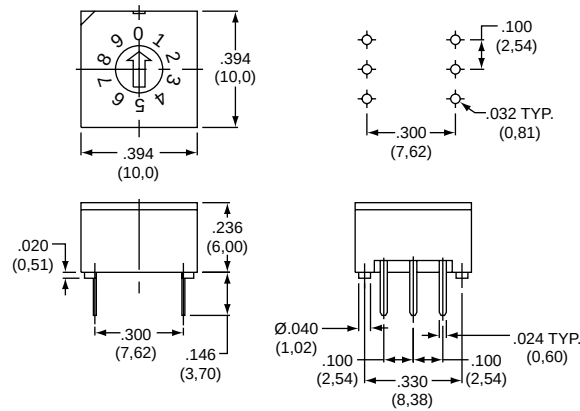
COVER: (PTH) PBT red; (SMT) PPA - red (UL 94V-0).  
HOUSING: (PTH) PBT green; (SMT) PPA - red (UL 94V-0).  
ACTUATOR: 4/6 nylon PA-6T (UL 94V-0).  
CONTACTS: Beryllium copper with gold over nickel.  
TERMINALS: Brass with tin-lead plated.

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

## SWITCHES WITH STANDARD OPTIONS

### PC Mount

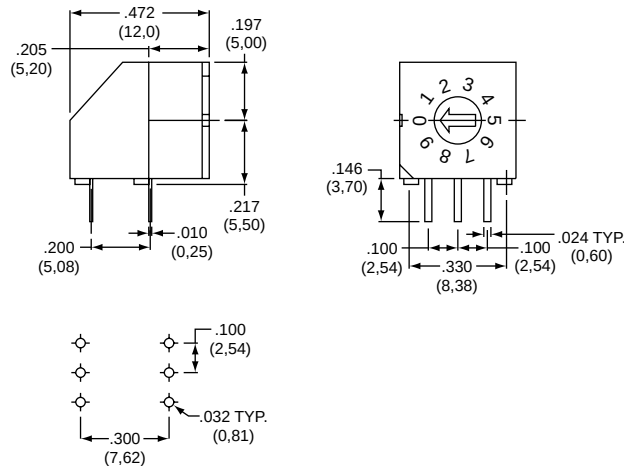
| PART NUMBER       | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| <b>CRD10RM0CK</b> | 10       | 45                |
| <b>CRD16RM0CK</b> | 16       | 45                |



CRD10RM0CK

### Right Angle Mount

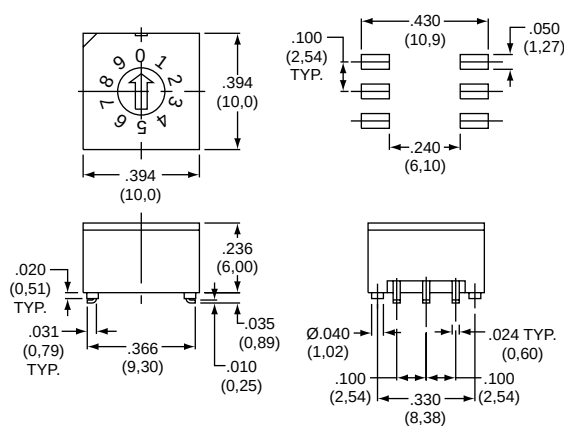
| PART NUMBER       | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| <b>CRD10RM0AK</b> | 10       | 45                |
| <b>CRD16RM0AK</b> | 16       | 45                |



CRD10RM0AK

### Surface Mount

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



CRD10RM0SK

# CRD Series 10mm DIP Coded Rotary Switches



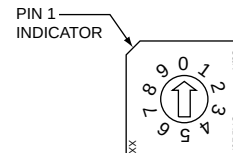
## SWITCH FUNCTION

**CRD10R** 10 POSITION, BCD  
ACTUATOR COLOR: WHITE

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

**CRD10C** 10 POSITION, BCD COMPLEMENT  
ACTUATOR COLOR: BLACK

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

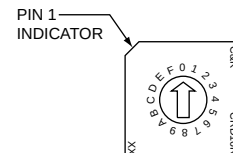


**CRD16R** 16 POSITION, HEXADECIMAL  
ACTUATOR COLOR: WHITE

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

**CRD16C** 16 POSITION, HEXADECIMAL COMPLEMENT  
ACTUATOR COLOR: BLACK

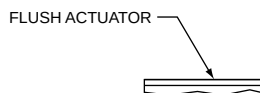
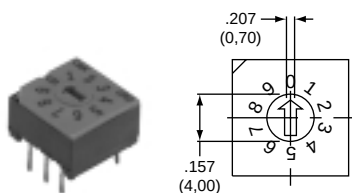
| POS. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C    | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 1    | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 2    |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



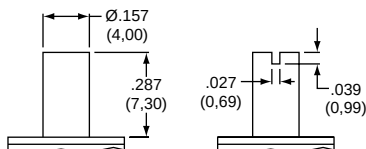
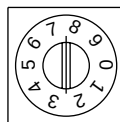
DIP

## ACTUATOR

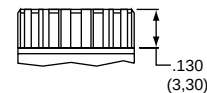
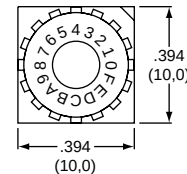
**M0** (STD.) FLUSH WITH SCREWDRIVER SLOT



**L1** EXTENDED WITH SCREWDRIVER SLOT



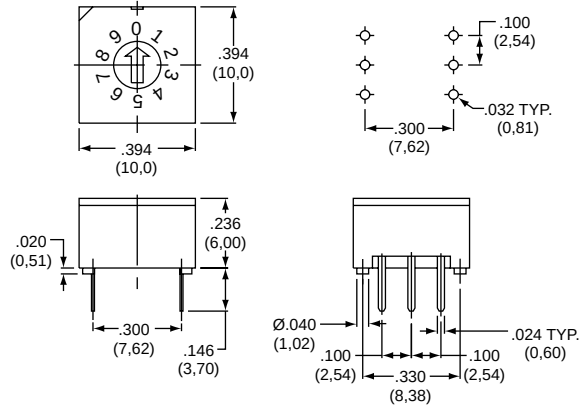
**W1** WHEEL



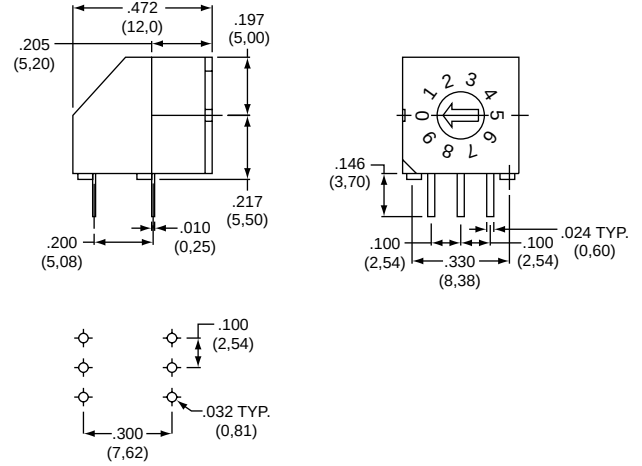
**NOTE:** Designed for #0 Phillips screwdriver.

### TERMINATIONS

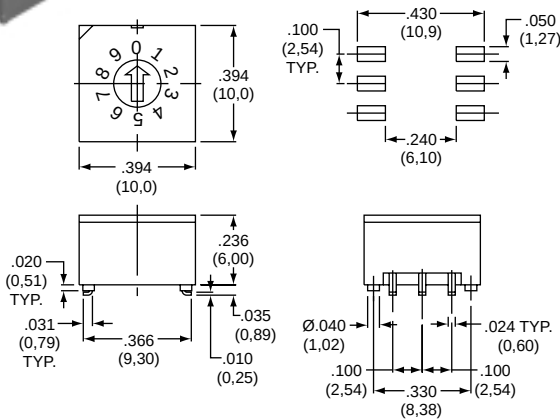
#### C PC THRU-HOLE



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



#### S SURFACE MOUNT



### CONTACT MATERIAL

| OPTION CODE     | CONTACT MATERIAL | TERMINAL PLATING | RATING                                                 |
|-----------------|------------------|------------------|--------------------------------------------------------|
| <b>K</b> (STD.) | GOLD             | TIN-LEAD         | LOW LEVEL/DRY CIRCUIT 0.4 VC MAX. @ 20 V AC or DC MAX. |