

CRD Series 10mm DIP Coded Rotary Switches



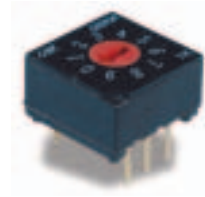
DIP

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.

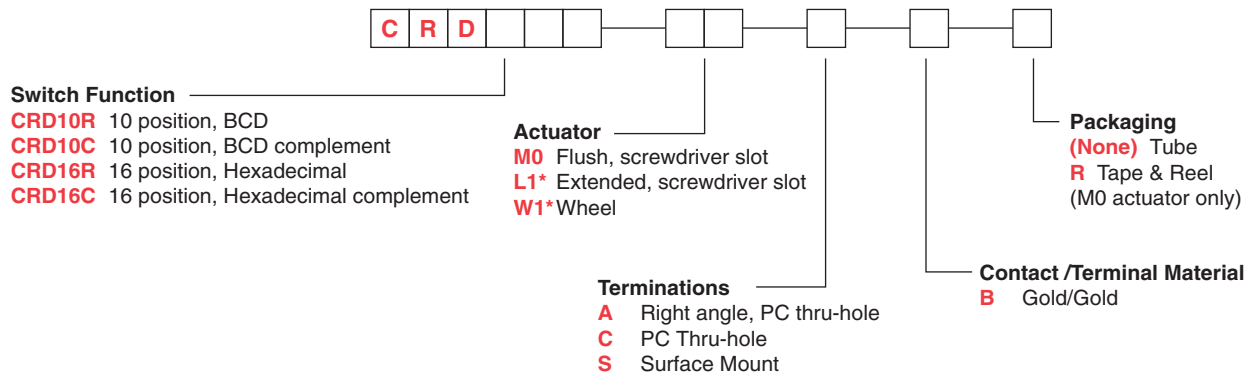
Materials

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

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

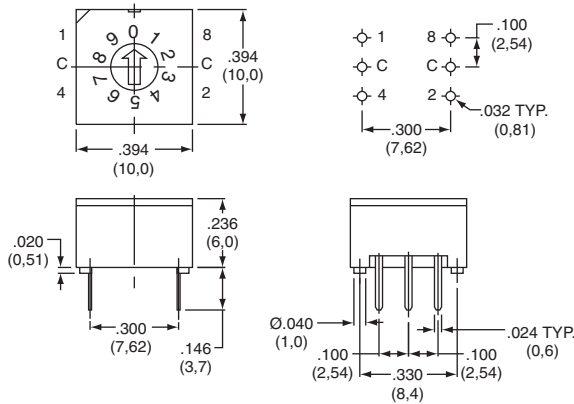
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SWITCHES WITH STANDARD OPTIONS



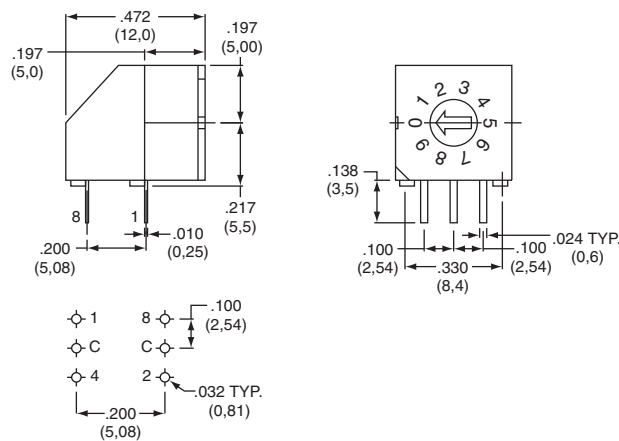
H
DIP

PC Mount



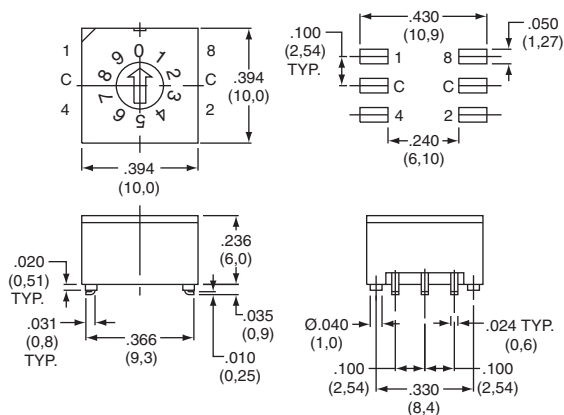
| PART NUMBER | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| CRD10RM0CB | 10 | 45 |
| CRD16RM0CB | 16 | 45 |

Right Angle Mount



| PART NUMBER | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| CRD10RM0AB | 10 | 45 |
| CRD16RM0AB | 16 | 45 |

Surface Mount



| PART NUMBER | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| CRD10RM0SB | 10 | 45 |
| CRD16RM0SB | 16 | 45 |



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SWITCH FUNCTION

DIP H

CRD10R

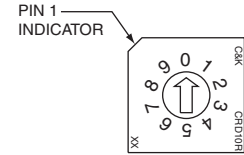
10 POSITION, BCD
ACTUATOR COLOR: RED

| 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

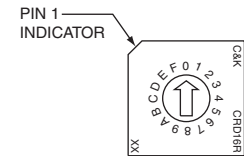
16 POSITION, HEXADECIMAL
ACTUATOR COLOR: BLACK

| 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

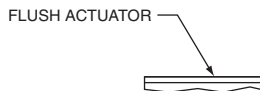
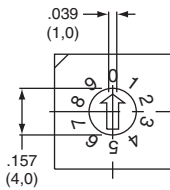
| POS. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 1 | ● | | | | ● | | ● | | ● | | ● | | ● | | ● | |
| 2 | | | ● | ● | | | ● | ● | | |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



ACTUATOR

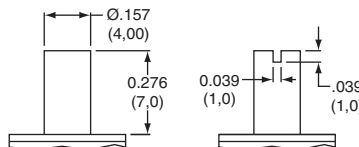
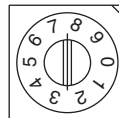
M0

(STD.) FLUSH WITH SCREWDRIVER SLOT



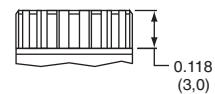
L1*

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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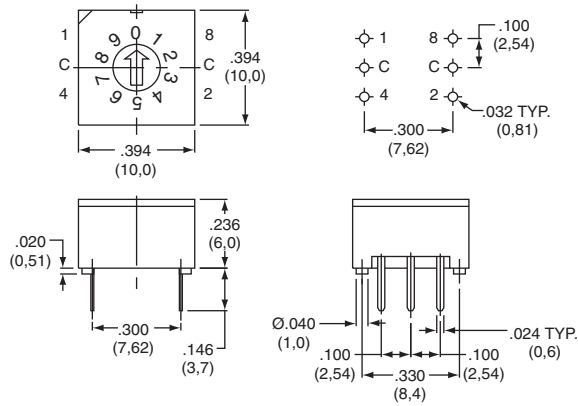
C&K

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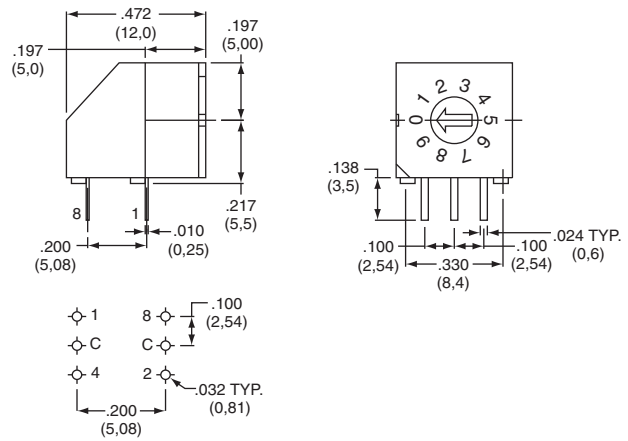
TERMINATIONS



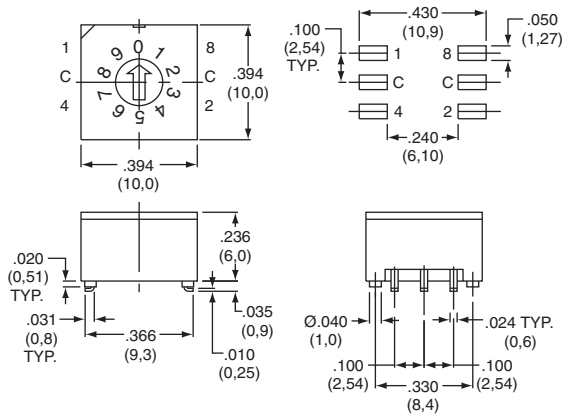
C PC, THRU-HOLE



A RIGHT ANGLE, PC THRU-HOLE



S SURFACE MOUNT



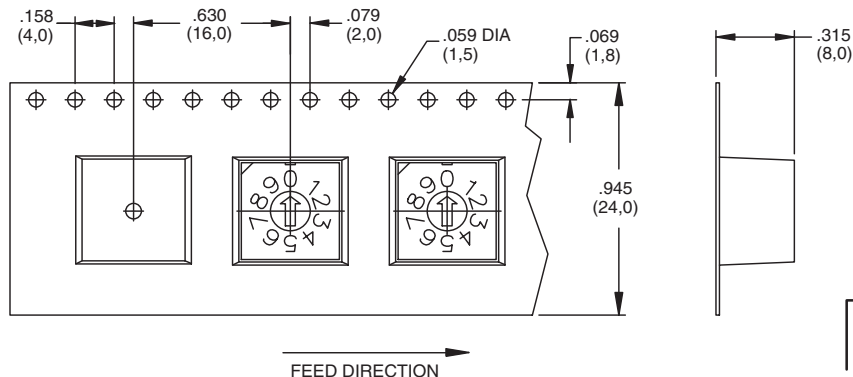
CONTACT MATERIAL



| OPTION CODE | RoHS COMPLIANT* | RoHS COMPATIBLE* | CONTACT MATERIAL | TERMINAL PLATING | RATING | |
|-------------|-----------------|------------------|------------------|------------------|-----------------------|----------------------------------|
| B | 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



H
DIP