

CRD Series 10mm DIP Coded Rotary Switches



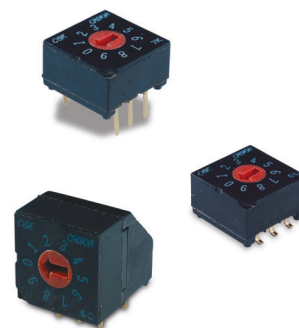
H
DIP

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 M0 actuators available in tape and reel, 500 pieces per reel.

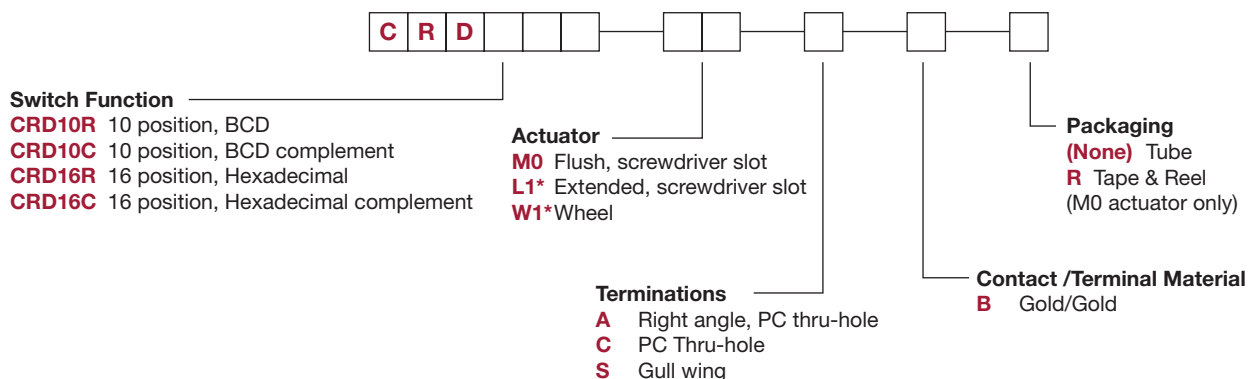
Materials

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"



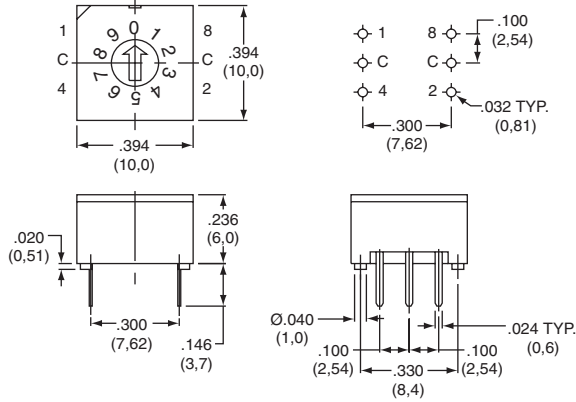
Dimensions are shown: Inch (mm)
 Specifications and dimensions subject to change



CRD Series 10mm DIP Coded Rotary Switches

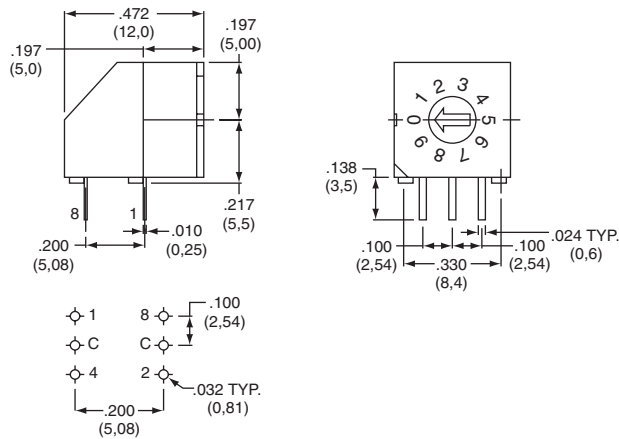
SWITCHES WITH STANDARD OPTIONS

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 |



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

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

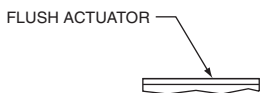
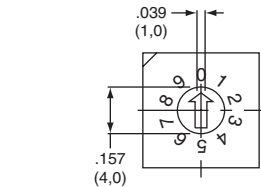
| POS. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 1 | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● | |
| 2 | ● | ● | | | | | | | | | |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

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



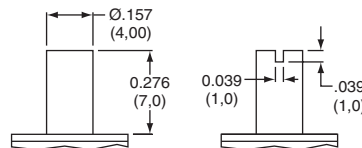
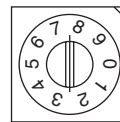
ACTUATOR

(STD.) FLUSH WITH SCREWDRIVER SLOT



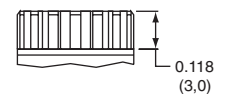
L1*

EXTENDED WITH SCREWDRIVER SLOT



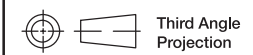
W1*

WHEEL



NOTE: Designed for #0 Phillips screwdriver.

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



Third Angle
Projection

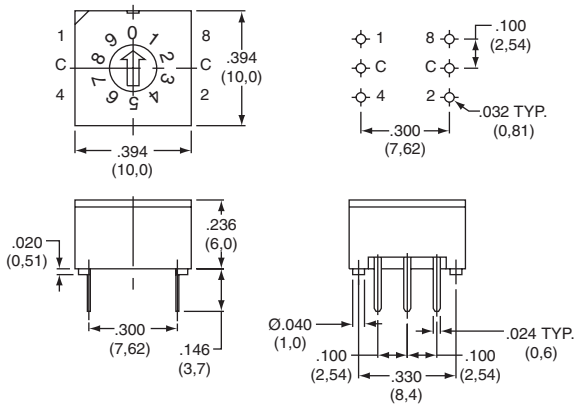
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TERMINATIONS



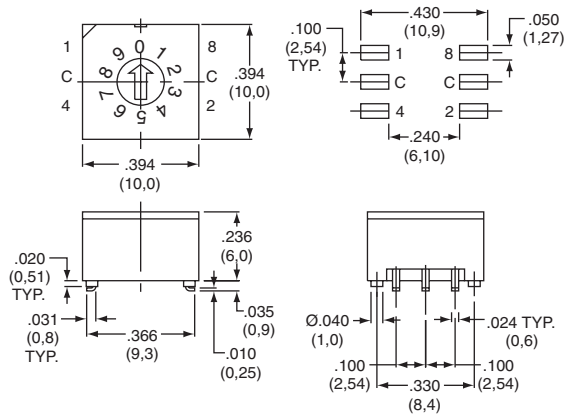
C PC, THRU-HOLE



A RIGHT ANGLE, PC THRU-HOLE



S SURFACE MOUNT



MO

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



Third Angle Projection
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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9