

# 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



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## SWITCHES WITH STANDARD OPTIONS

### PC Mount



| PART NUMBER       | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| <b>CRD10RM0CB</b> | 10       | 45                |
| <b>CRD16RM0CB</b> | 16       | 45                |

### Right Angle Mount



| PART NUMBER       | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| <b>CRD10RM0AB</b> | 10       | 45                |
| <b>CRD16RM0AB</b> | 16       | 45                |

### Surface Mount



| PART NUMBER       | NO. POS. | QUANTITY PER TUBE |
|-------------------|----------|-------------------|
| <b>CRD10RM0SB</b> | 10       | 45                |
| <b>CRD16RM0SB</b> | 16       | 45                |



Third Angle Projection  
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## 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



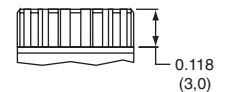
### L1\*

EXTENDED WITH SCREWDRIVER SLOT



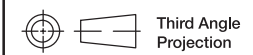
### W1\*

WHEEL



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

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



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## TERMINATIONS



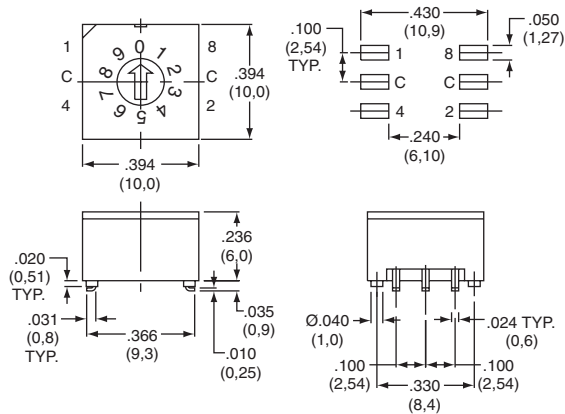
### C PC, THRU-HOLE



### A RIGHT ANGLE, PC THRU-HOLE



### S SURFACE MOUNT



### MO

## CONTACT MATERIAL



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



Third Angle Projection

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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