# CRD Series
# 10mm DIP Coded Rotary Switches

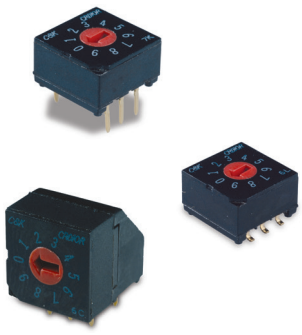


## *Features/Benefits*

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

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.

C R D

**Switch Function**
**CRD10R** 10 position, BCD
**CRD10C** 10 position, BCD complement
**CRD16R** 16 position, Hexadecimal
**CRD16C** 16 position, Hexadecimal complement

**Actuator**
**M0** Flush, screwdriver slot
**L1*** Extended, screwdriver slot
**W1***Wheel

**Terminations**
**A** Right angle, PC thru-hole
**C** PC Thru-hole
**S** Gull wing

**Contact /Terminal Material**
**B** Gold/Gold

**Packaging**
**(None)** Tube
**R** Tape & Reel
(M0 actuator only)

* Note - L1 and W1 actuators are not available in termination “S”

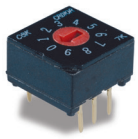
Third Angle Projection

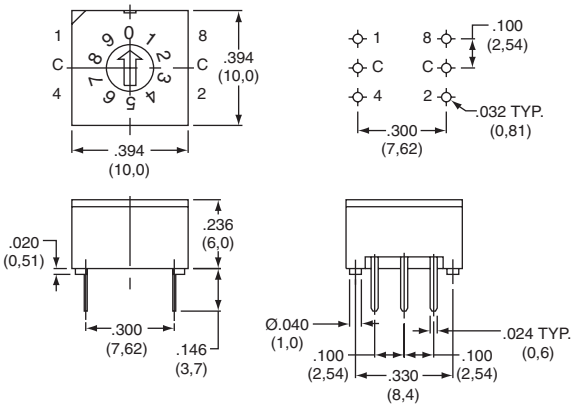
*Dimensions are shown: Inch (mm)*
*Specifications and dimensions subject to change*

# CRD Series
# 10mm DIP Coded Rotary Switches

## SWITCHES WITH STANDARD OPTIONS

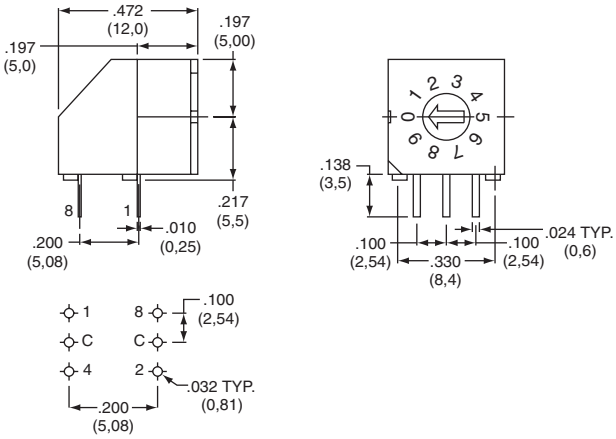
### PC Mount





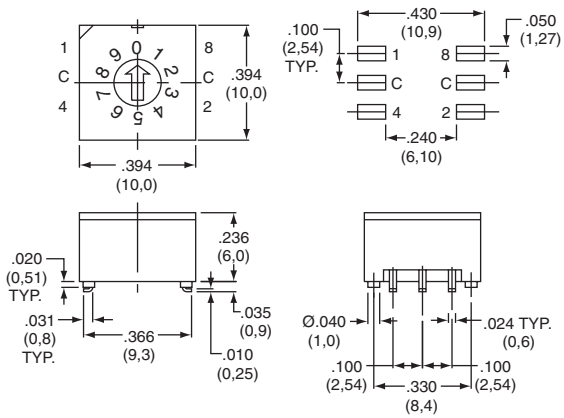

| PART NUMBER | NO. POS. | QUANTITY PER TUBE |
|---|---|---|
| **CRD10RM0CB** | 10 | 45 |
| **CRD16RM0CB** | 16 | 45 |

### 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*

## 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 | | | | | | | | | ● | ● |

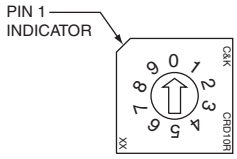
Switches ship and to be solder processed in position "0"

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

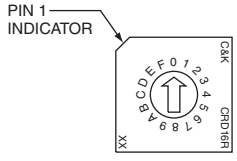
Switches ship and to be solder processed in position "0"

### CRD16C

16 POSITION, HEXADECIMAL COMPLEMENT
ACTUATOR COLOR: WHITE

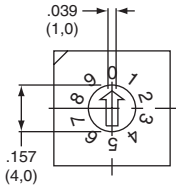
| POS. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 1 | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● | |
| 2 | ● | ● | | | ● | ● | | | ● |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

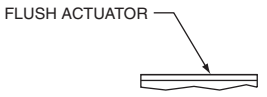
Switches ship and to be solder processed in position "F"




## ACTUATOR

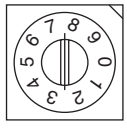
(STD.) FLUSH WITH SCREWDRIVER SLOT

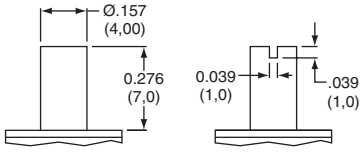



### L1*

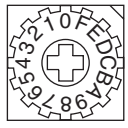
EXTENDED WITH SCREWDRIVER SLOT

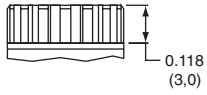





### W1*

WHEEL






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

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

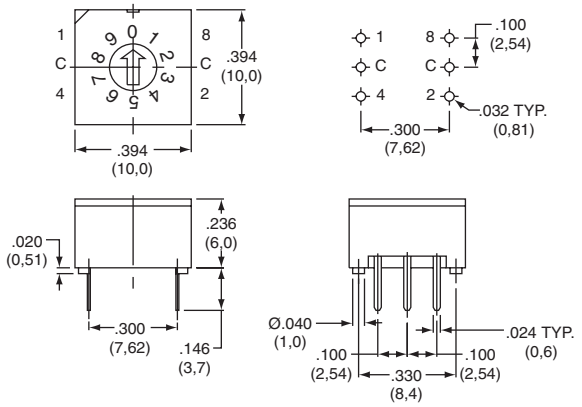
Third Angle Projection

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

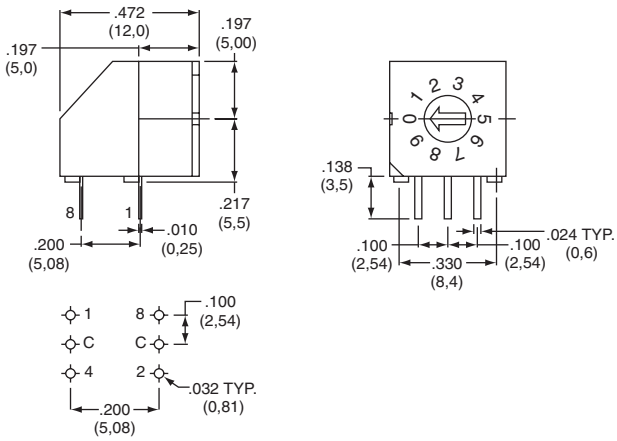
# CRD Series
# 10mm DIP Coded Rotary Switches

## TERMINATIONS

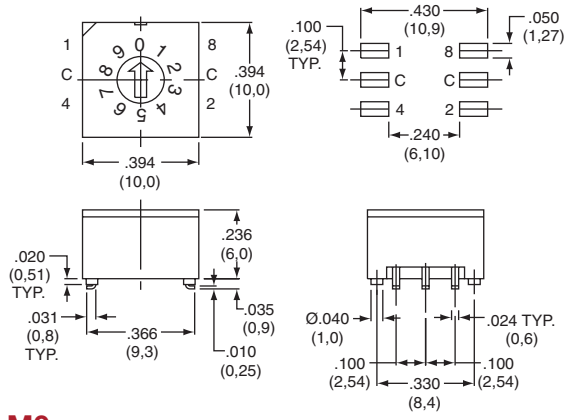
**C** PC, THRU-HOLE




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




**S** SURFACE MOUNT



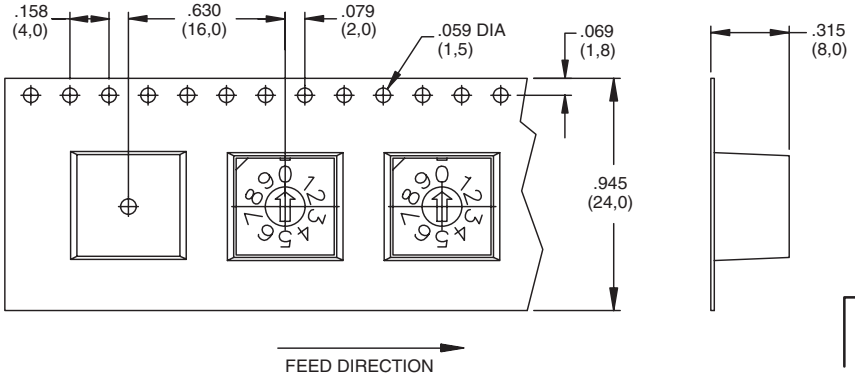

**M0**

## 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

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

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

*Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.*

*С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров*

*Мы предлагаем:*

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

*В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.*

*Конструкторский отдел помогает осуществить:*

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

*Тел: +7 (812) 336 43 04 (многоканальный)*
*Email: org@lifeelectronics.ru*

***www.lifeelectronics.ru***