

CD Series 8mm DIP Coded Rotary Switches

Features/Benefits

- **Process sealed – withstands soldering and cleaning**
- **Thru-hole and surface mount models**
- **Compact size saves space – 36% smaller than traditional 10mm DIP**
- **Crisp, positive detent ensures actuation**
- **RoHS compliant**

Typical Applications

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



H
DIP

Specifications

CONTACT RATING: 0.4 VA max. @ 20 V AC or V DC max.

MECHANICAL AND ELECTRICAL LIFE:

CD10 & CD16: 20,000 actuations.

CD08: 12,000 actuations.

CONTACT RESISTANCE: 50 milliohms max. initial.

INSULATION RESISTANCE: 100 megohms min.
@ 250 V AC min.

DIELECTRIC STRENGTH: 250 V RMS min. @ sea level.

OPERATING TEMPERATURE: -25°C to 85°C.

STORAGE TEMPERATURE: -40°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D or EIA RS-186E, method 9 (1 hour steam aging).

PACKAGING: Switches supplied in rigid tubes in full-tube quantities only: this may affect order quantity. Tube quantity is 60 pieces per tube. Surface mount switches available in tape & reel packaging per EIA 481A, 800 per reel, surface mount with "M0" actuator only.

Materials

COVER: PPS (UL94V-0), Color; Black.

BASE: PPS (UL94V-0), Color; Black

ACTUATOR: LCP (UL 94V-0), Color White (CDXXR)
Color Black (CDXXC)

Note: internal o-ring seal standard with all actuators.

MOVABLE CONTACTS: Copper alloy with gold plate over nickel plate.

STATIONARY CONTACTS: Copper alloy with gold plate over nickel plate.

TERMINALS: Copper alloy with gold plate over 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 D			
Switch Function		Actuator	
CD08R 8 position, BCD		M0 Flush, screwdriver slot	
CD10R 10 position, BCD			
CD10C 10 position, BCD complement			
CD16R 16 position, Hexadecimal			
CD16C 16 position, Hexadecimal complement			
		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 (SMT, M0 actuator only)	



Third Angle
Projection



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

HIP

Right Angle Mount

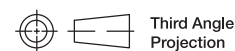


PART NUMBER	NO. POS.	QUANTITY PER TUBE
CD08RM0AB	8	60
CD10RM0AB	10	60
CD10CM0AB	10	60
CD16RM0AB	16	60
CD16CM0AB	16	60

Figure 1: Dimensions of the 10-pin connector. The figure includes three views: a top view, a side view, and a front view. The top view shows a square connector with a central circular pin array. Dimensions include a .100 (2,54) pin pitch, .315 (8,00) overall width and height, .200 (5,08) pin diameter, and .080 (2,03) pin height. The side view shows a .010 THK (0,25) thickness and .006 (0,15) standoff. The front view shows a .050 (1,27) TYP. pin height and .430 (10,92) overall width. Pin numbers 1 through 8 are indicated on the top view.

PART NUMBER	NO. POS.	QUANTITY PER TUBE
CD08RM0SB	8	60
CD10RM0SB	10	60
CD10CM0SB	10	60
CD16RM0SB	16	60
CD16CM0SB	16	60

Note: For tape and reel packaging, add 'R' to end of part number.



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

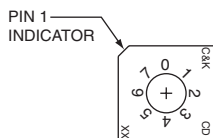
CD Series 8mm DIP Coded Rotary Switches

SWITCH FUNCTION



CD08R 8 POSITION, BCD
ACTUATOR COLOR: WHITE

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



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

CD10R 10 POSITION, BCD
ACTUATOR COLOR: WHITE

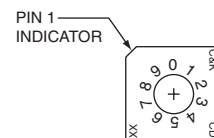
POS.	0	1	2	3	4	5	6	7	8	9
C	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●
2			●	●			●	●		
4					●	●	●	●		
8									●	●

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

CD10C 10 POSITION, BCD COMPLEMENT
ACTUATOR COLOR: BLACK

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"



CD16R 16 POSITION, HEXADECIMAL
ACTUATOR COLOR: WHITE

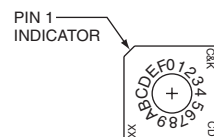
POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●		●		●		●
2			●	●			●	●			●	●			●	●
4					●	●			●	●			●	●		
8									●	●	●	●	●	●	●	●

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

CD16C 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	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

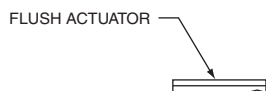
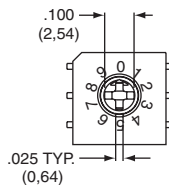
Switches ship and to be solder processed in position "F"



ACTUATOR



M0 (STD.) FLUSH WITH SCREWDRIVER SLOT



NOTE: Designed for #0 Phillips screwdriver.



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

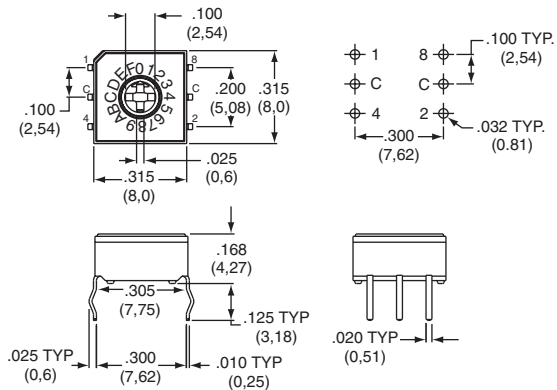
C&K

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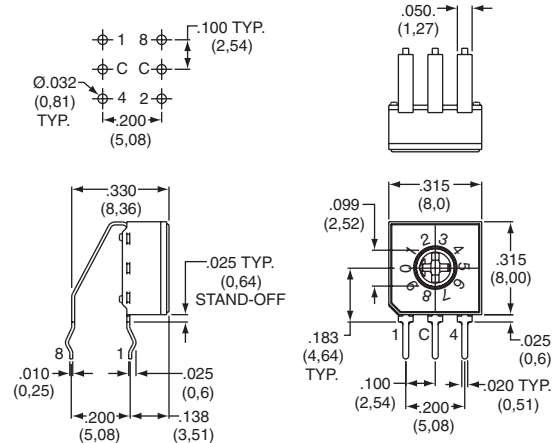
TERMINATIONS



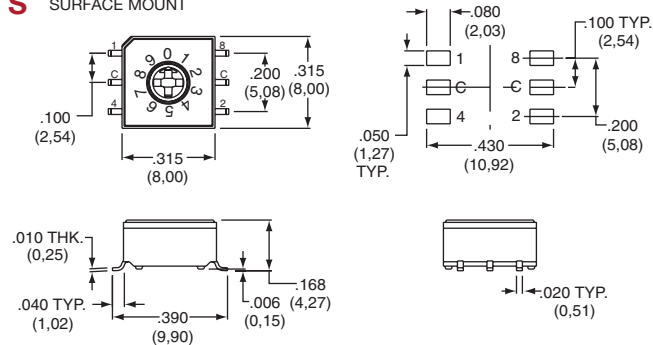
C PC, THRU-HOLE



A RIGHT ANGLE, PC THRU-HOLE



S SURFACE MOUNT



CONTACT MATERIAL

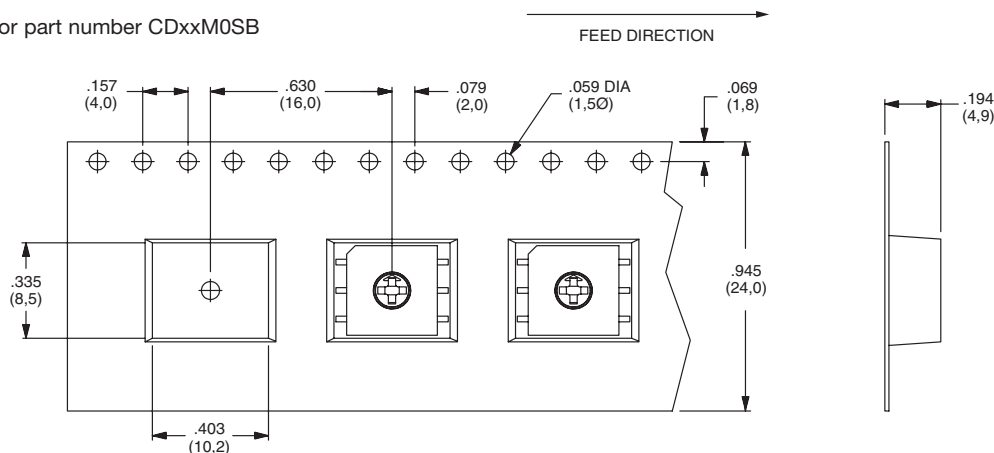


OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT MATERIAL	TERMINAL PLATING	RATING	
B	YES	YES	GOLD	GOLD	LOW LEVEL/DRY CIRCUIT	0.4 VC MAX. @ 20 V AC or DC MAX.

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

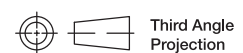
TAPE & REEL

For part number CDxxM0SB



Reel Information

Outside diameter	13.00 (333,0)
Pilot hole	.512 (13,0)



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Switches:

[CD10RM0CK](#) [CD10RM0SK](#) [CD10RM0AK](#) [CD16RK1AK](#) [CD16RK1CK](#) [CD16RK1SK](#) [CD08RL1AK](#) [CD08CM0AK](#)
[CD10RK1AK](#) [CD10RK1CK](#) [CD10RK1SK](#) [CD08CL1AK](#) [CD08CL1CK](#) [CD10RL1AK](#) [CD10RL1CK](#) [CD08RM0AK](#)
[CD08RM0CK](#) [CD16RL1CK](#) [CD16RL1AK](#) [CD16RM0AK](#) [CD16RM0SK](#) [CD10RK1AB](#) [CD08CM0CK](#) [CD08RL1CK](#)
[CD16RK1AB](#) [CD16RK1CB](#) [CD08RL1AB](#) [CD08RL1CB](#) [CD10RK1CB](#) [CD08RK1SB](#) [CD10CL1AB](#) [CD16CL1SB](#)
[CD16CL1AB](#)