

CD Series

8mm DIP Coded Rotary Switches



DIP

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*



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. Surface mount switches available in tape & reel packaging per EIA 481A, 800 per reel, "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.

KNOB: Glass filled nylon, flame retardant (UL 94V-0).

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

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.

Switch Function	Actuator	Terminations	Contact/Terminal Material	Packaging
CD08R 8 position, BCD	M0 Flush, screwdriver slot	A Right Angle, PC Thru-hole	B Gold/Gold	NONE Tube
CD08C 8 position, BCD complement	L1 Extended, screwdriver slot	C PC Thru-hole		R Tape & Reel (M0 actuator only)
CD10R 10 position, BCD	K1 Knob	S Surface Mount		
CD10C 10 position, BCD complement				
CD16R 16 position, Hexadecimal				
CD16C 16 position, Hexadecimal complement				



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



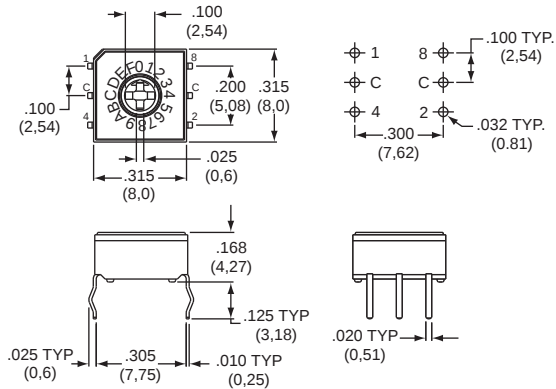
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SWITCHES WITH STANDARD OPTIONS

PC Mount



CD16RM0CB

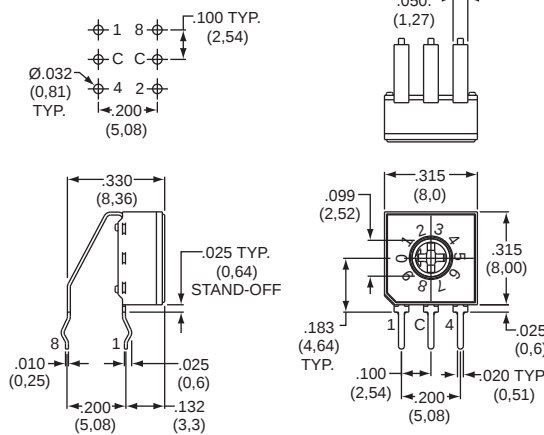


PART NUMBER	NO. POS.	QUANTITY PER TUBE
CD08RM0CB	8	60
CD10RM0CB	10	60
CD16RM0CB	16	60

Right Angle Mount



CD10RM0AB

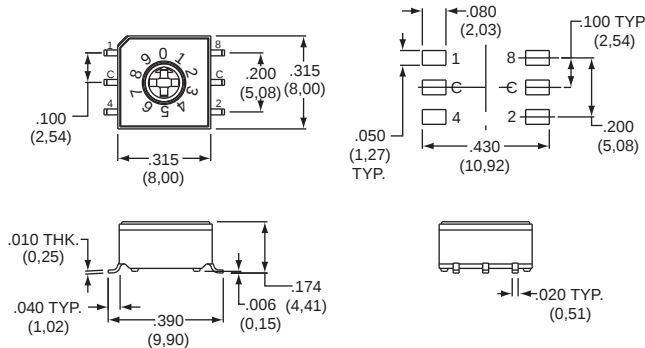


PART NUMBER	NO. POS.	QUANTITY PER TUBE
CD08RM0AB	8	60
CD10RM0AB	10	60
CD16RM0AB	16	60

Surface Mount

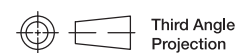


CD10RM0SB



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

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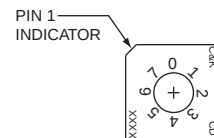
SWITCH FUNCTION

CD08R 8 POSITION, BCD
ACTUATOR COLOR: WHITE

CD08C 8 POSITION, BCD COMPLEMENT
ACTUATOR COLOR: BLACK

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

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

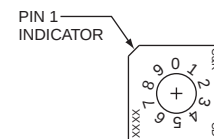


CD10R 10 POSITION, BCD
ACTUATOR COLOR: WHITE

CD10C 10 POSITION, BCD COMPLEMENT
ACTUATOR COLOR: BLACK

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

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

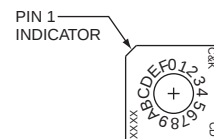


CD16R 16 POSITION, HEXADECIMAL
ACTUATOR COLOR: WHITE

CD16C 16 POSITION, HEXADECIMAL COMPLEMENT
ACTUATOR COLOR: BLACK

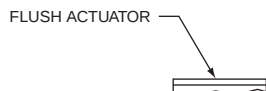
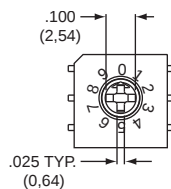
POS.	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1		●		●		●		●		●		●		●		●
2			●		●		●		●		●		●		●	
4				●		●		●		●		●		●		●
8					●		●		●		●		●		●	

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



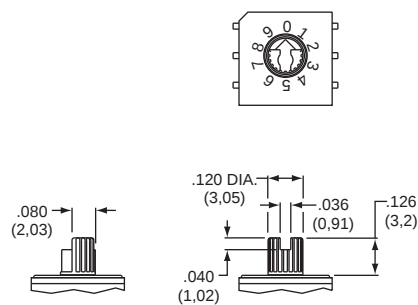
ACTUATOR

M0 (STD.) FLUSH WITH SCREWDRIVER SLOT

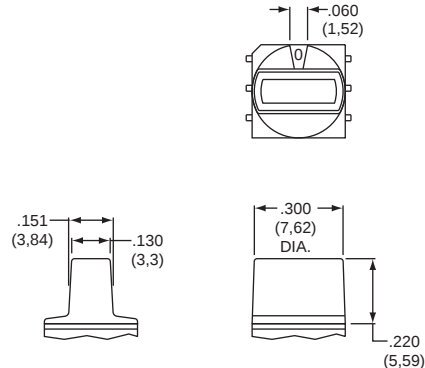


NOTE: Designed for #0 Phillips screwdriver.

L1 EXTENDED WITH SCREWDRIVER SLOT



K1 KNOB



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CONTACT MATERIAL

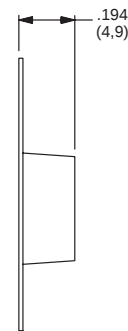
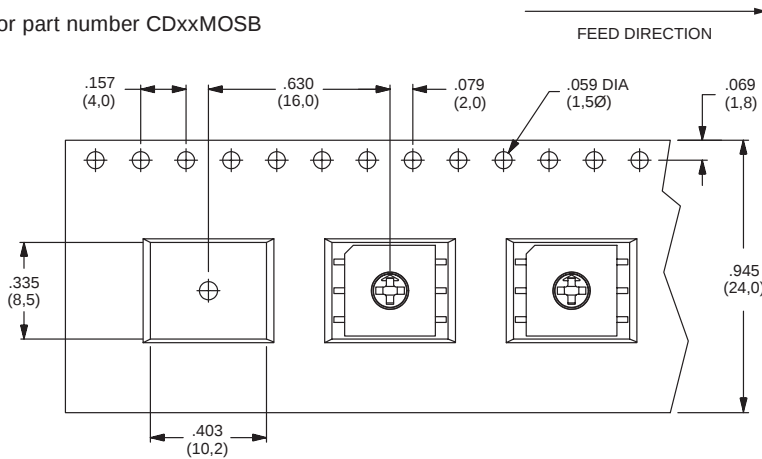


OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT MATERIAL	TERMINAL PLATING	RATING	
B	YES	YES	GOLD	GOLD	LOW LEVEL/DRY CIRCUIT	0.4 VC MAX. @ 20 V AC or DC MAX.

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

TAPE & REEL

For part number CDxxMOSB



Reel Information

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

Mouser Electronics

Authorized Distributor

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

C&K Components:

[CD10RM0CK](#) [CD10RM0SK](#) [CD10RM0AK](#) [CD16RK1AK](#) [CD16RK1CK](#) [CD16RK1SK](#) [CD08RL1AK](#) [CD08CM0AK](#)
[CD10RK1AK](#) [CD10RK1CK](#) [CD10RK1SK](#) [CD08CL1AK](#) [CD08CL1CK](#) [CD10RL1AK](#) [CD10RL1CK](#) [CD08RM0AK](#)
[CD08RM0CK](#) [CD16RL1CK](#) [CD16RL1AK](#) [CD16RM0AK](#) [CD16RM0SK](#) [CD10RK1AB](#) [CD08CM0CK](#) [CD08RL1CK](#)
[CD10RL1CB](#) [CD10RM0AB](#) [CD10RM0CB](#) [CD16RK1AB](#) [CD16RK1CB](#) [CD16RL1AB](#) [CD16RM0AB](#) [CD08RL1AB](#)
[CD08RL1CB](#)