

# CRE Series 10mm DIP Coded Rotary Switches



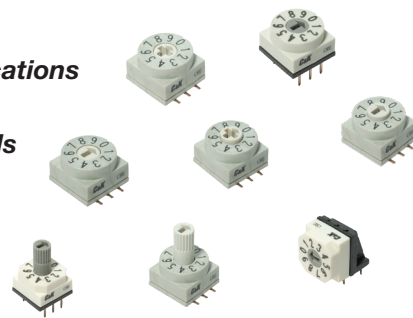
H  
DIP

## Features/Benefits

- Process sealed – withstands soldering and cleaning
- Thru-hole and surface mount models
- New designs with different actuators
- RoHS compatible and compliant
- New generation price competitive
- IP65

## Typical Applications

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



## Specifications

CONTACT RATING: 42 V DC 150mA (switching), 200mA (non-switching)  
 MECHANICAL & ELECTRICAL LIFE: 10,000 cycles  
 INITIAL CONTACT RESISTANCE: 200 mΩ max.  
 INSULATION RESISTANCE: 100 MΩ min.  
 OPERATING TEMPERATURE: -20°C to 85°C.  
 STORAGE TEMPERATURE: -40°C to 85°C.  
 OPERATING FORCE: 700 gf max.  
 SOLDER CONDITIONS:  
 - Straight and right-angle types: Iron soldering 2s/340°C, wave soldering 5s/280°C  
 - Through-hole and SMT types: Iron soldering 2s/340°C, wave soldering: 5s/280°C, reflow soldering 10s/260°C

SOLDERABILITY: Dip and look solderability testing per C&K spec #448

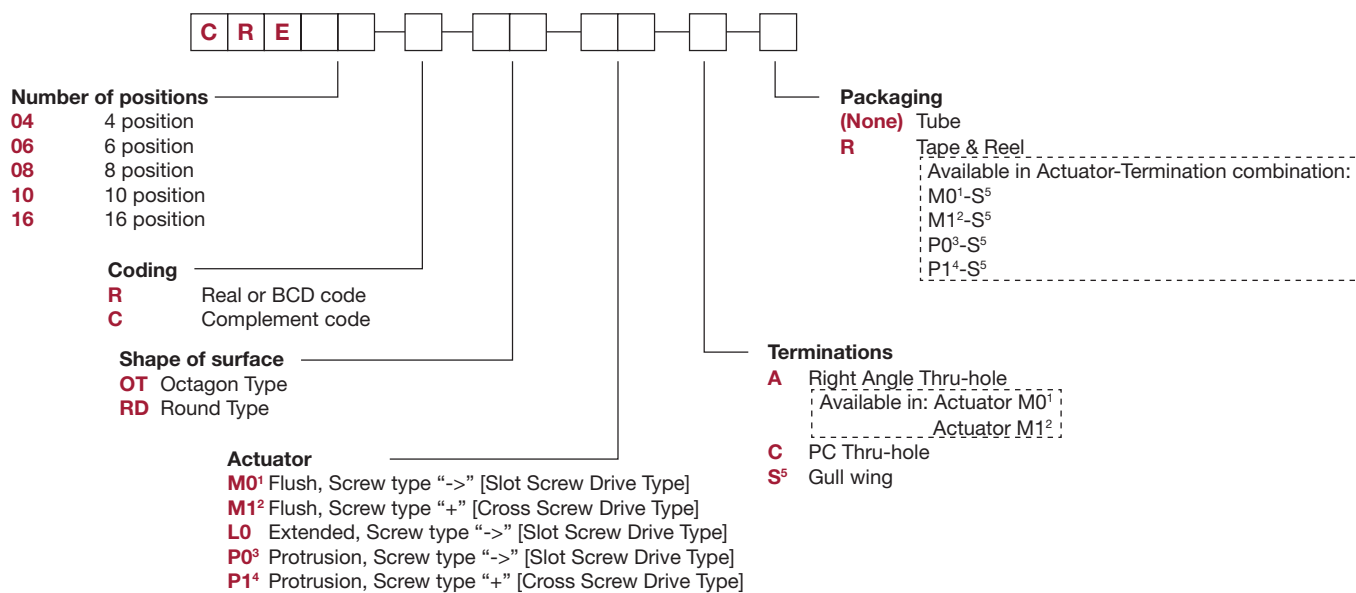
PACKAGING: Switches are supplied in rigid dispensing tubes in full-tube quantities only, this may affect order quantities. Number of switches per tube varies with model. Tape and reel packing also available with exception for the right-angle “A” type terminations.

## Materials

COVER:  
 - Straight and right-angle types: Nylon#66 (G45%)  
 - Through-hole and SMT types: LCP (G30%)  
 BASE:  
 - Straight and right-angle types: Nylon#66 (G45%)  
 - Through-hole and SMT types: LCP (G30%)  
 ACTUATOR:  
 - Straight and right-angle types: Poly Acetal  
 - Through-hole and SMT types: Nylon#66 (G45%)  
 CONTACTS: Brass with Gold nickel plating  
 TERMINALS: Brass with Gold nickel plating

## 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.



Remarks in Annotation



# CRE Series 10mm DIP Coded Rotary Switches

## CODING

DIP I

### R Real Code

04 POSITION

		Real Code				
04 POSITION		C	1	2	4	8
0	0	•				
1	1	•	•			
2	2	•		•		
3	3	•			•	

06 POSITION

		Real Code				
06 POSITION		C	1	2	4	8
0	0	•				
1	1	•	•			
2	2	•		•		
3	3	•			•	
4	4	•				•
5	5	•	•	•		
6	6	•			•	
7	7	•				•

08 POSITION

		Real Code				
08 POSITION		C	1	2	4	8
0	0	•				
1	1	•	•			
2	2	•		•		
3	3	•			•	
4	4	•				•
5	5	•	•	•		
6	6	•			•	
7	7	•				•

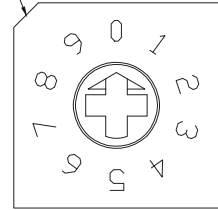
10 POSITION

		Real Code				
10 POSITION		C	1	2	4	8
0	0	•				
1	1	•	•			
2	2	•		•		
3	3	•			•	
4	4	•				•
5	5	•	•	•		
6	6	•			•	
7	7	•				•
8	8	•	•	•		
9	9	•			•	

16 POSITION

		Real Code				
16 POSITION		C	1	2	4	8
0	0	•				
1	1	•	•			
2	2	•		•		
3	3	•			•	
4	4	•				•
5	5	•	•	•		
6	6	•			•	
7	7	•				•
8	8	•	•	•		
9	9	•			•	
A	A	•				•
B	B	•	•	•		
C	C	•			•	
D	D	•				•
E	E	•	•	•		
F	F	•			•	

PIN 1 INDICATOR



### C Complement Code

04 POSITION

		Complement Code				
04 POSITION		C	1	2	4	8
0	0		•	•	•	•
1	1			•	•	•
2	2				•	•
3	3					•

06 POSITION

		Complement Code				
06 POSITION		C	1	2	4	8
0	0		•	•	•	•
1	1			•	•	•
2	2				•	•
3	3					•
4	4		•	•		
5	5		•	•		

08 POSITION

		Complement Code				
08 POSITION		C	1	2	4	8
0	0		•	•	•	•
1	1			•	•	•
2	2				•	•
3	3					•
4	4		•	•		
5	5		•	•		
6	6				•	•
7	7					•

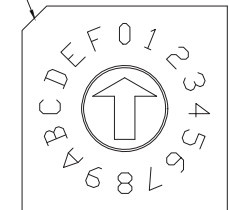
10 POSITION

		Complement Code				
10 POSITION		C	1	2	4	8
0	0		•	•	•	•
1	1			•	•	•
2	2				•	•
3	3					•
4	4		•	•		
5	5		•	•		
6	6				•	•
7	7					•
8	8		•	•		
9	9				•	•

16 POSITION

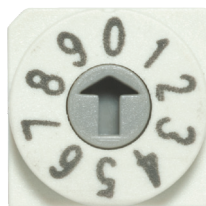
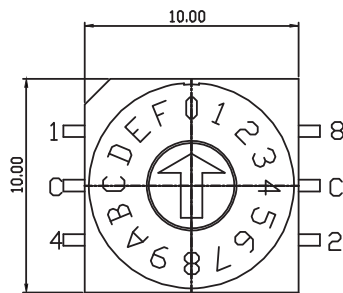
		Complement Code				
16 POSITION		C	1	2	4	8
0	0		•	•	•	•
1	1			•	•	•
2	2				•	•
3	3					•
4	4		•	•		
5	5		•	•		
6	6				•	•
7	7					•
8	8		•	•		
9	9				•	•
A	A					•
B	B		•	•		
C	C				•	•
D	D					•
E	E		•	•		
F	F				•	•

PIN 1 INDICATOR

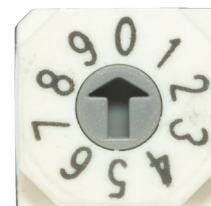
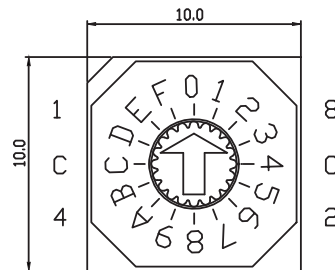


## SHAPE OF SURFACE

### RD Round Type



### OT Octagon Type



Third Angle Projection

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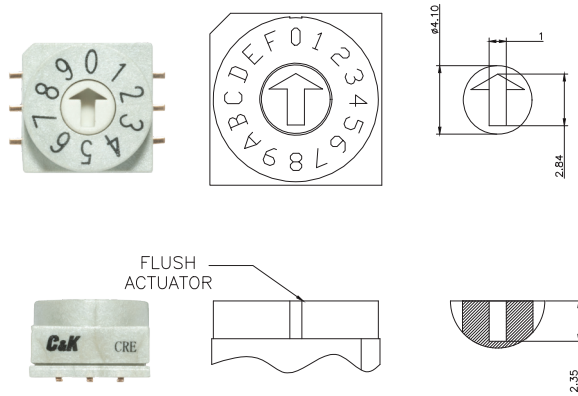


DIP

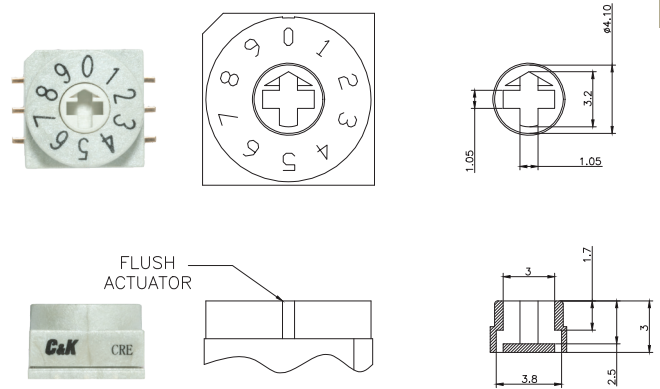
DIP

## ACTUATOR

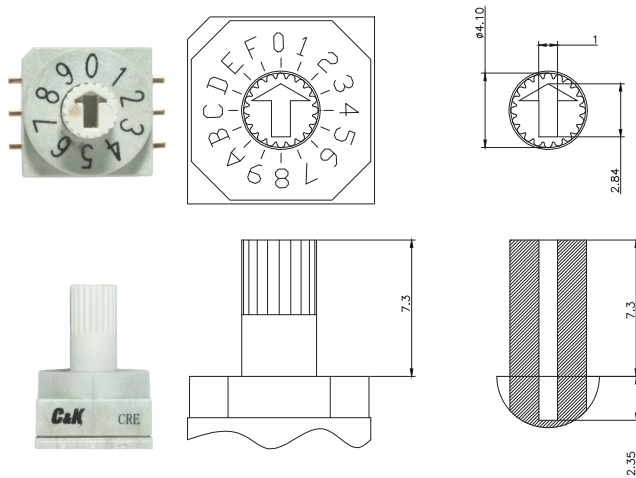
**M0** Flush, Screw type “->”



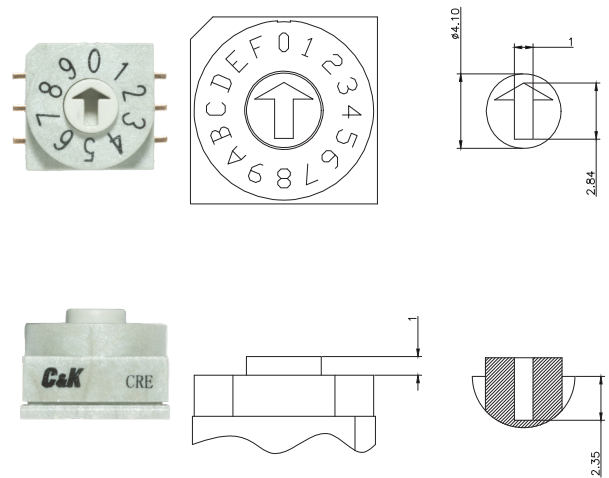
**M1** Flush, Screw type “+”



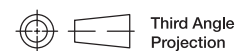
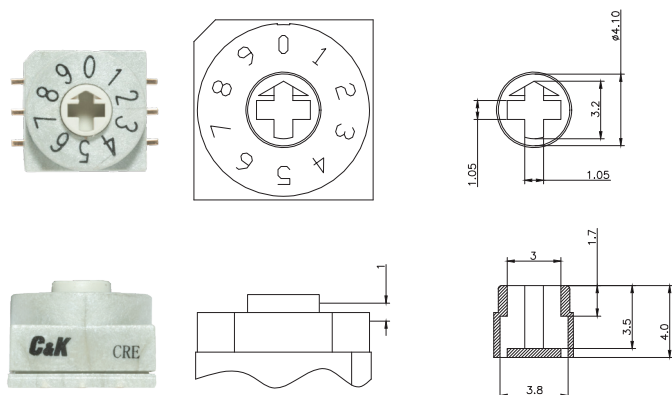
**L0** Extended, Screw type “->”



**P0** Protrusion, Screw type “->”



**P1** Protrusion, Screw type “+”



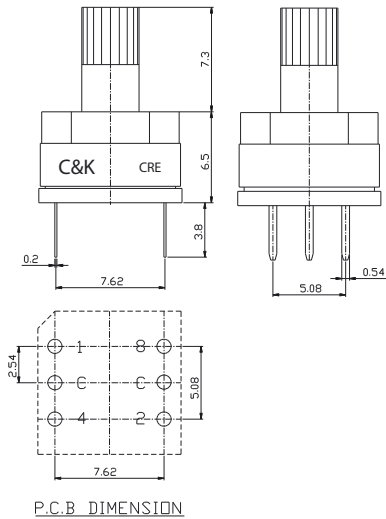
Third Angle  
Projection

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

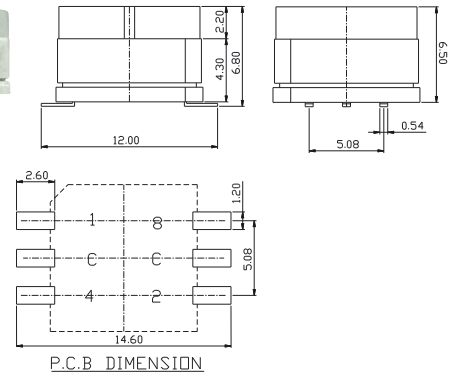
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## TERMINATIONS

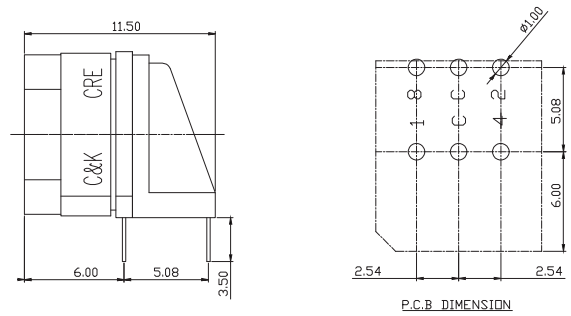
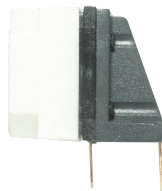
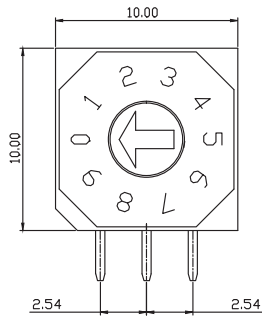
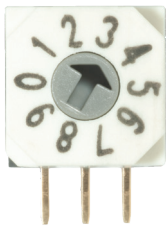
### C PC Thru-hole



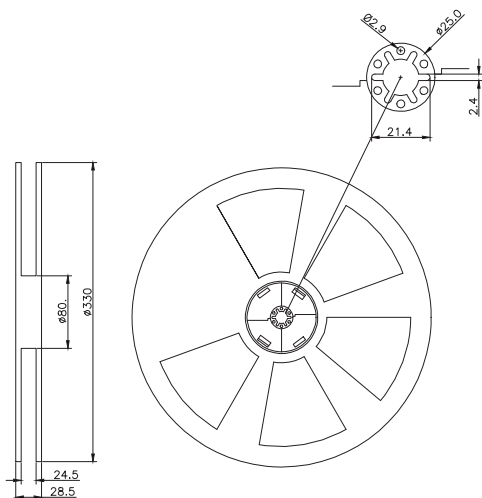
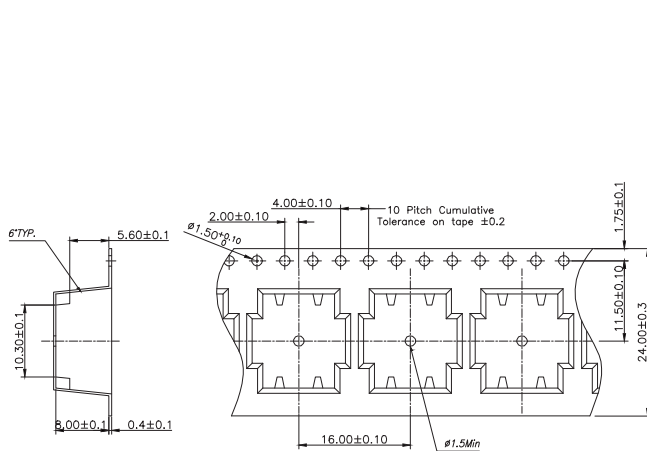
### S Gull wing



### A Right Angle Thru-hole



## TAPE & REEL



TAPE & REEL: 600 pcs



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



25 Feb 21