

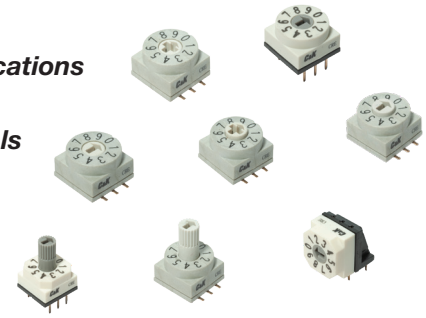
# CRE Series 10mm DIP Coded Rotary Switches

## 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**



H

DIP

## 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: -40°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.

<div>C R E</div>									
<b>Number of positions</b>		<b>Coding</b>		<b>Shape of surface</b>		<b>Actuator</b>		<b>Packaging</b>	
<b>04</b>	4 position	<b>R</b>	Real or BCD code	<b>OT</b>	Octagon Type	<b>M0</b>	Flush, Screw type "->" [Slot Screw Drive Type]	<b>(None)</b>	Tube
<b>06</b>	6 position	<b>C</b>	Complement code	<b>RD</b>	Round Type	<b>M1</b>	Flush, Screw type "+" [Cross Screw Drive Type]	<b>R</b>	Tape & Reel
<b>08</b>	8 position					<b>L0</b>	Extended, Screw type "->" [Slot Screw Drive Type]		(Not available for termination type A & C)
<b>10</b>	10 position					<b>P0</b>	Protrusion, Screw type "->" [Slot Screw Drive Type]		
<b>16</b>	16 position					<b>P1</b>	Protrusion, Screw type "+" [Cross Screw Drive Type]		
								<b>Terminations</b>	
								<b>A</b>	Right Angle, PC Thru-hole
									(Only available for actuator M0 & M1)
								<b>C</b>	PC Thru-hole
								<b>S</b>	Gull Wing

Remarks in Annotation



Third Angle  
Projection



# CRE Series 10mm DIP Coded Rotary Switches

## CODING

### R Real Code

04 POSITION

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

06 POSITION

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

08 POSITION

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

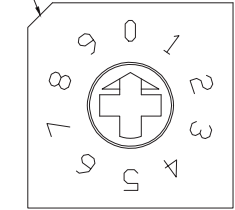
10 POSITION

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

16 POSITION

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

PIN 1  
INDICATOR



### C Complement Code

04 POSITION

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

06 POSITION

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

08 POSITION

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

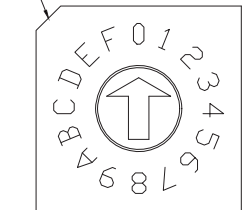
10 POSITION

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

16 POSITION

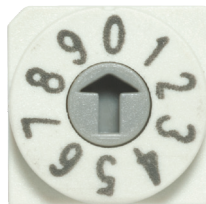
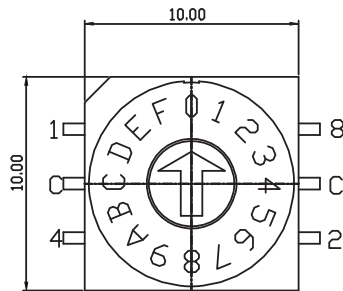
	C	1	2	4	8
16 POSITION					
0	•	•	•	•	•
1	•	•	•	•	•
2	•	•	•	•	•
3	•	•	•	•	•
4	•	•	•	•	•
5	•	•	•	•	•
6	•	•	•	•	•
7	•	•	•	•	•
8	•	•	•	•	•
9	•	•	•	•	•
A	•	•	•	•	•
B	•	•	•	•	•
C	•	•	•	•	•
D	•	•	•	•	•
E	•	•	•	•	•
F	•	•	•	•	•

PIN 1  
INDICATOR

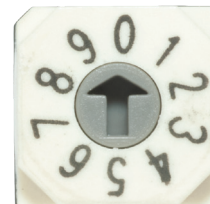
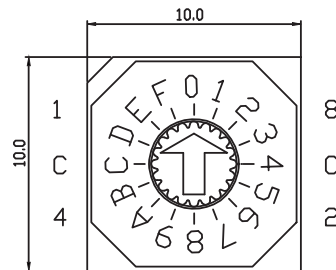


## SHAPE OF SURFACE

### RD Round Type



### OT Octagon Type

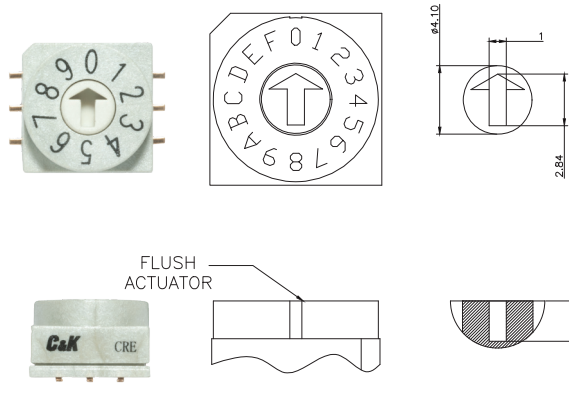


Third Angle  
Projection

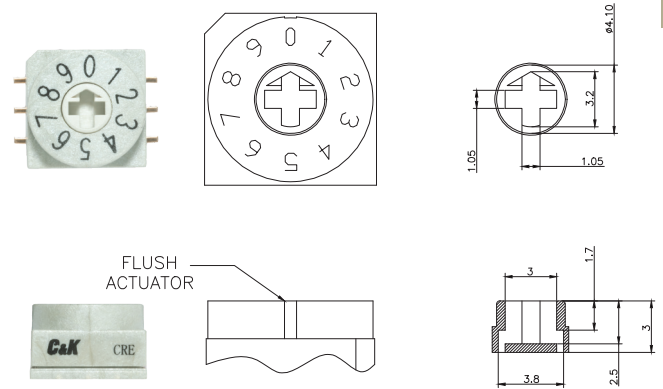
# CRE Series 10mm DIP Coded Rotary Switches

## ACTUATOR

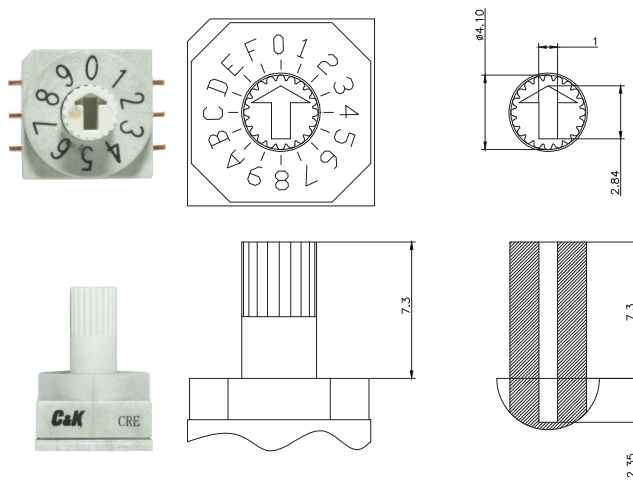
**M0** Flush, Screw type “->”



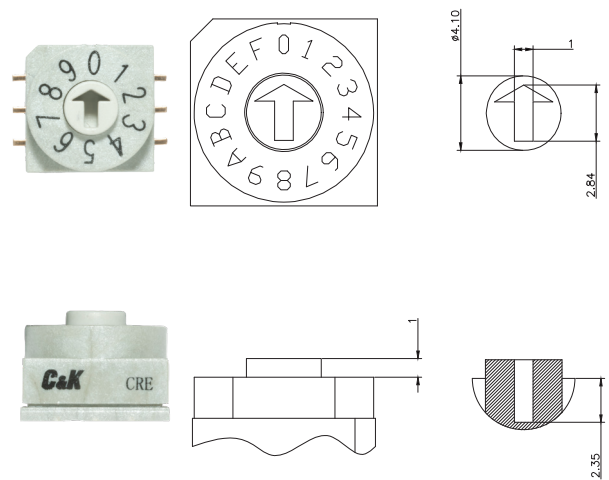
**M1** Flush, Screw type “+”



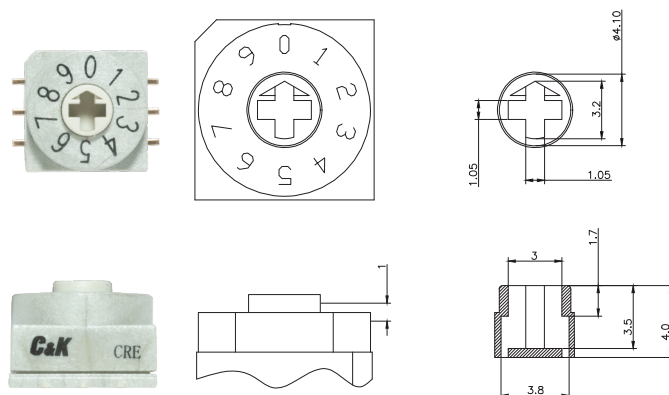
**L0** Extended, Screw type “->”



**P0** Protrusion, Screw type “->”



**P1** Protrusion, Screw type “+”

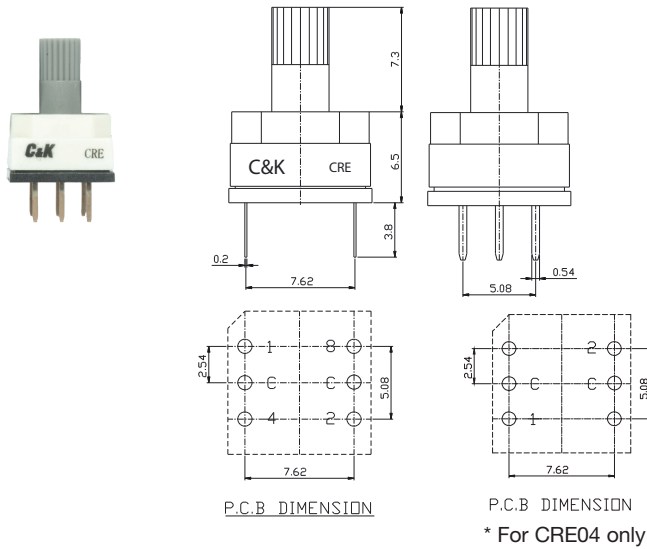


Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

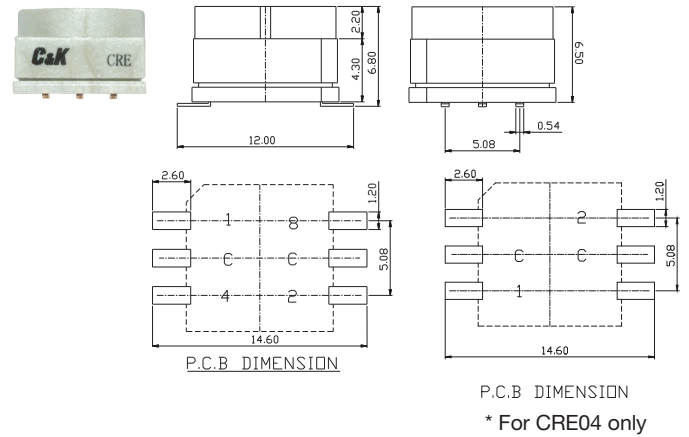
# CRE Series 10mm DIP Coded Rotary Switches

## TERMINATIONS

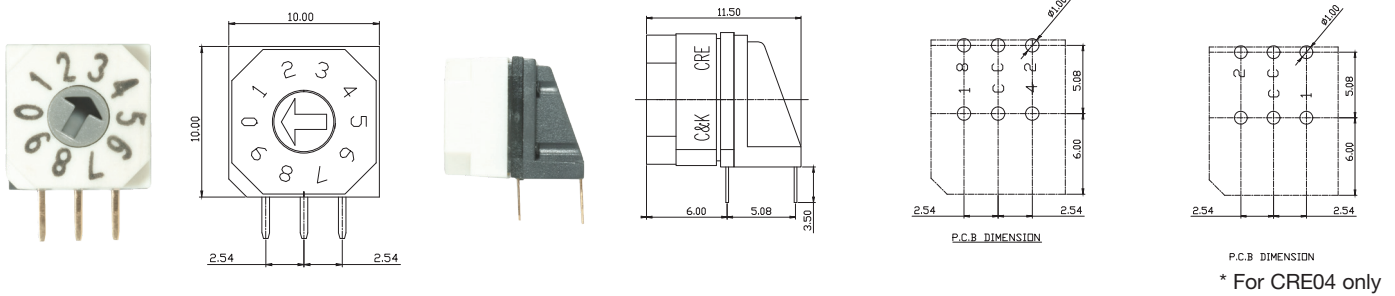
### C PC Thru-hole



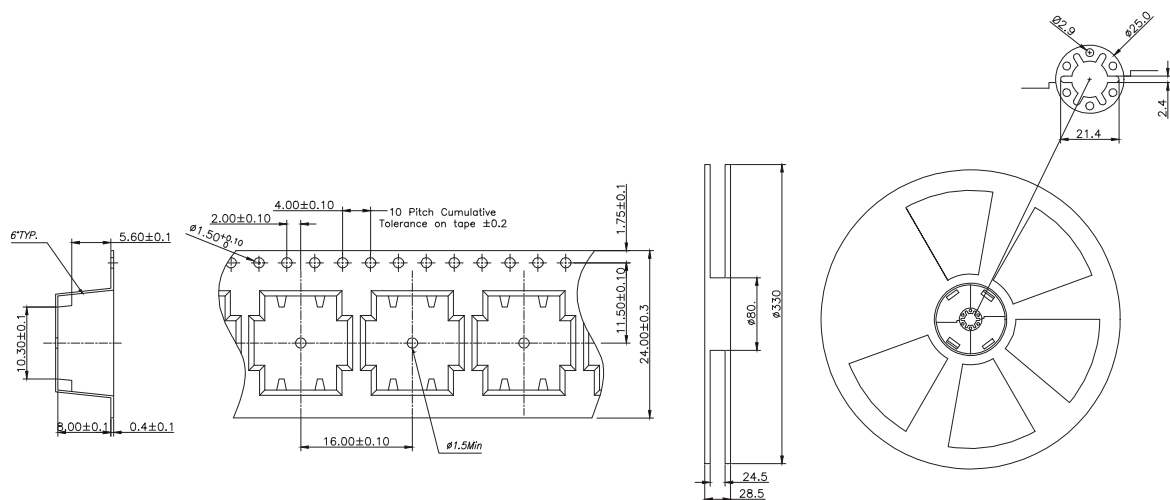
### S Gull wing



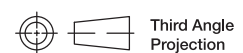
### A Right Angle Thru-hole



## TAPE & REEL



TAPE & REEL: 600 pcs



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

# Mouser Electronics

Authorized Distributor

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

## C&K Switches:

[CRE04C0TL0S](#) [CRE04C0TL0SR](#) [CRE04C0TM0A](#) [CRE04C0TM0C](#) [CRE04C0TM0S](#) [CRE04C0TM0SR](#)  
[CRE16R0TP1S](#) [CRE16R0TP1SR](#) [CRE16R0TM1S](#) [CRE16R0TM1SR](#) [CRE16R0TP0C](#) [CRE16R0TP0S](#)  
[CRE16R0TP0SR](#) [CRE16R0TP1C](#) [CRE16R0TM0A](#) [CRE16R0TM0C](#) [CRE16R0TM0S](#) [CRE16R0TM0SR](#)  
[CRE16R0TM1A](#) [CRE16R0TM1C](#) [CRE16C0TP1C](#) [CRE16C0TP1S](#) [CRE16C0TP1SR](#) [CRE16R0TL0C](#)  
[CRE16R0TL0S](#) [CRE16R0TL0SR](#) [CRE16C0TM1C](#) [CRE16C0TM1S](#) [CRE16C0TM1SR](#) [CRE16C0TP0C](#)  
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[CRE16C0TM0SR](#) [CRE16C0TM1A](#) [CRE10R0TP0SR](#) [CRE10R0TP1C](#) [CRE10R0TP1S](#) [CRE10R0TP1SR](#)  
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