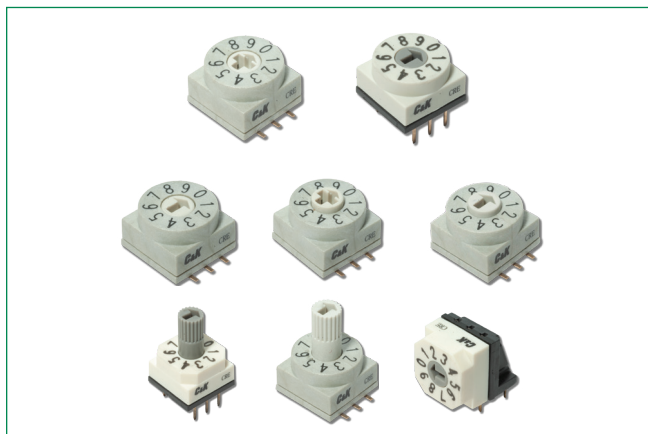


# CRE Series

## 10mm Coded Rotary DIP Switches



### Specifications

<b>Contact Rating</b>	42 V DC 150 mA (switching), 200 mA (non-switching)
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### Mechanical Specifications

<b>Mechanical &amp; Electrical Life</b>	10,000 cycles
<b>Insulation Resistance</b>	100MΩ min.
<b>Initial Contact Resistance</b>	300 mΩ Max.

### Environmental Specifications

<b>Operating Temperature</b>	-40°C to 85°C
<b>Storage Temperature</b>	
<b>Operating Force</b>	700 gf Max.

### Process

<b>Solder Conditions</b>	PC Through-hole: Iron soldering 5s/350°C, wave soldering 5s/280°C. Gull wing (SMT): Iron soldering 5s/350°C, reflow soldering 10s/260°C.
<b>Solderability</b>	Dip and look solderability testing per C&K spec #448
<b>Packaging</b>	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.

### Description

The CRE series 10mm DIP coded rotary switch is the newest DIP. It has new design with different actuators and frontal surface for end possibilities of product selection. It's fully processed sealed and hence can withstands soldering and cleaning.

### 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

### Applications

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

### Materials

<b>Cover</b>	PC Through-hole: PA Gull wing (SMT): LCP
<b>Base</b>	
<b>Actuator</b>	PC Through-hole: POM Gull wing (SMT): PA
<b>Contacts</b>	Phosphor bronze with gold plating
<b>Terminals</b>	

**Note:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

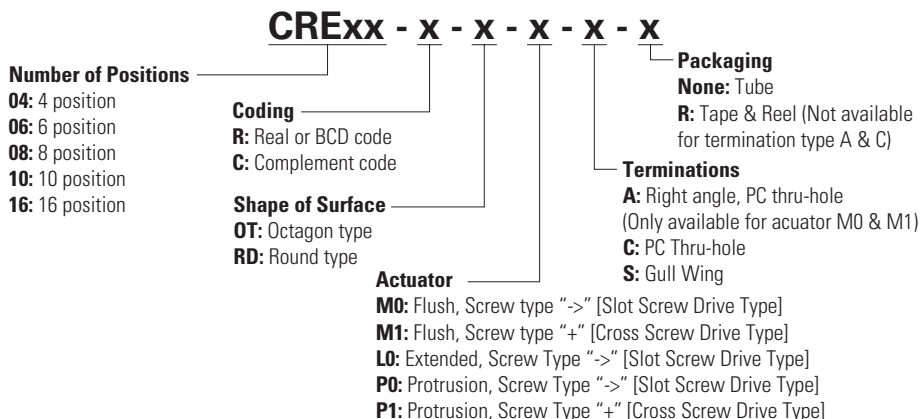
# CRE Series

## 10mm Coded Rotary DIP Switches



### Ordering Number

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.



### Coding

#### R - Real Code

04 Position

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

06 Position

06 POSITION	Real Code					
	C	1	2	4	8	
0	•					
1		•				
2			•			
4				•		
8					•	
16						•

08 Position

08 POSITION	Real Code						
	C	1	2	4	8		
0	•						
1		•					
2			•				
4				•			
8					•		
16						•	
32							•

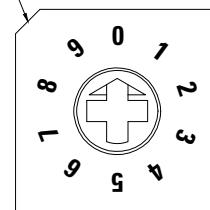
10 Position

10 POSITION	Real Code							
	C	1	2	4	8			
0	•							
1		•						
2			•					
4				•				
8					•			
16						•		
32							•	
64								•

16 Position

16 POSITION	Real Code															
	C	1	2	4	8											
0	•															
1		•														
2			•													
4				•												
8					•											
16						•										
32							•									
64								•								
128									•							
256										•						
512											•					
1024												•				
2048													•			
4096														•		
8192															•	
16384																•

PIN 1 Indicator



#### C - Complement Code

04 Position

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

06 Position

06 POSITION	Complement Code					
	C	1	2	4	8	
0		•	•	•	•	
1	•		•	•	•	
2	•	•		•	•	
4	•	•	•		•	
8	•	•	•	•		
16		•	•	•	•	•

08 Position

08 POSITION	Complement Code						
	C	1	2	4	8		
0		•	•	•	•		
1	•		•	•	•		
2	•	•		•	•		
4	•	•	•		•		
8	•	•	•	•			
16		•	•	•	•	•	
32	•	•	•	•	•		•

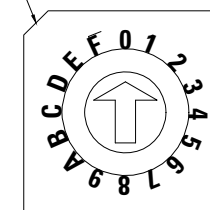
10 Position

10 POSITION	Complement Code							
	C	1	2	4	8			
0		•	•	•	•			
1	•		•	•	•			
2	•	•		•	•			
4	•	•	•		•			
8	•	•	•	•				
16		•	•	•	•	•		
32	•	•	•	•	•		•	
64	•	•	•	•	•			•
128	•	•	•	•	•			

16 Position

16 POSITION	Complement Code															
	C	1	2	4	8											
0		•	•	•	•											
1	•		•	•	•											
2	•	•		•	•											
4	•	•	•		•											
8	•	•	•	•												
16		•	•	•	•	•										
32	•	•	•	•	•		•									
64	•	•	•	•	•			•								
128	•	•	•	•	•				•							
256	•	•	•	•	•					•						
512	•	•	•	•	•						•					
1024	•	•	•	•	•							•				
2048	•	•	•	•	•								•			
4096	•	•	•	•	•									•		
8192	•	•	•	•	•										•	
16384	•	•	•	•	•											•

PIN 1 Indicator



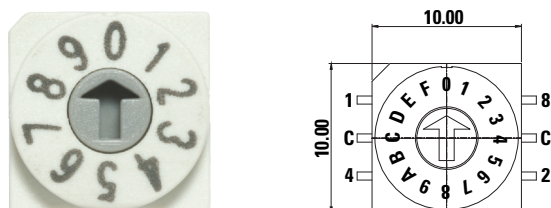
# CRE Series

## 10mm Coded Rotary DIP Switches

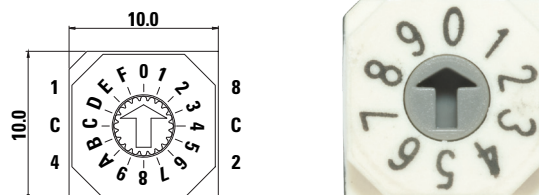


### Shape of Surface

RD - Round Type

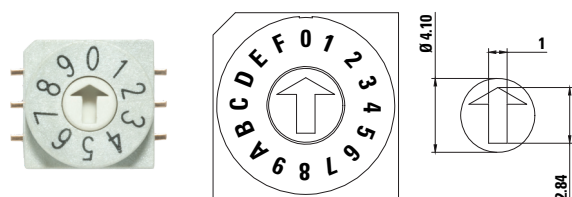


OT - Octagon Type

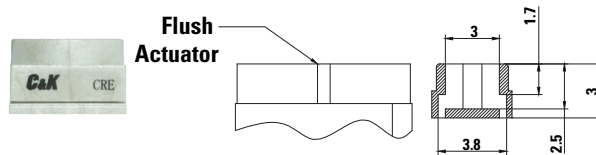
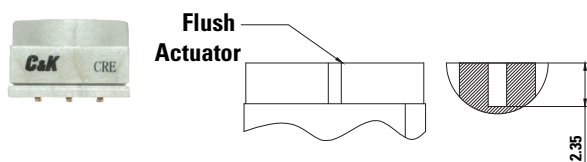
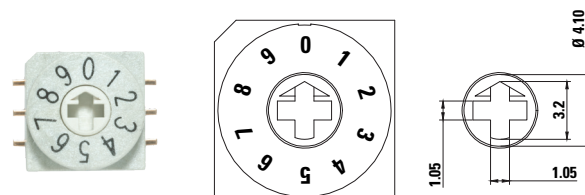


### Actuator (mm)

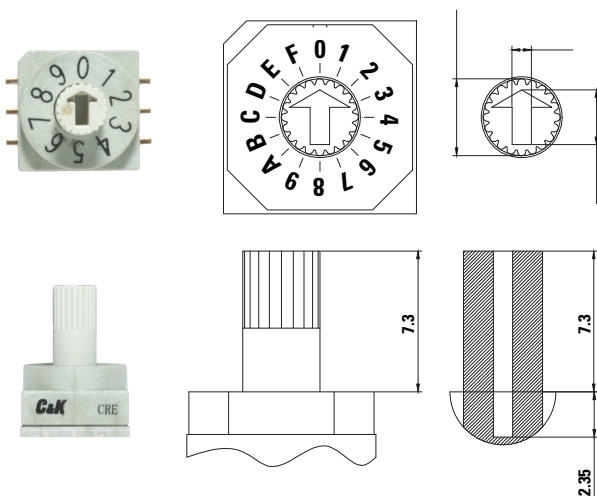
M1 Flush, Screw type "-&gt;"



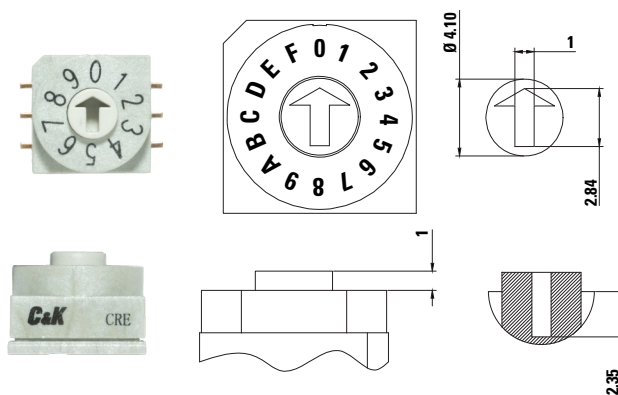
M0 Flush, Screw type "+"



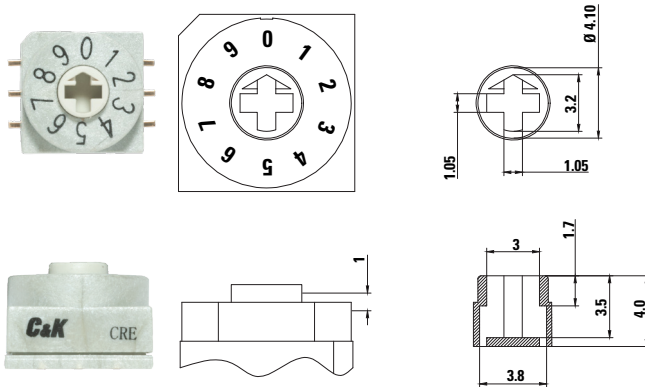
L0 Extended, Screw type "-&gt;"



P0 Protrusion, Screw type "-&gt;"



**P1 Protrusion, Screw type "+" (mm)**



### C PCThru-hole

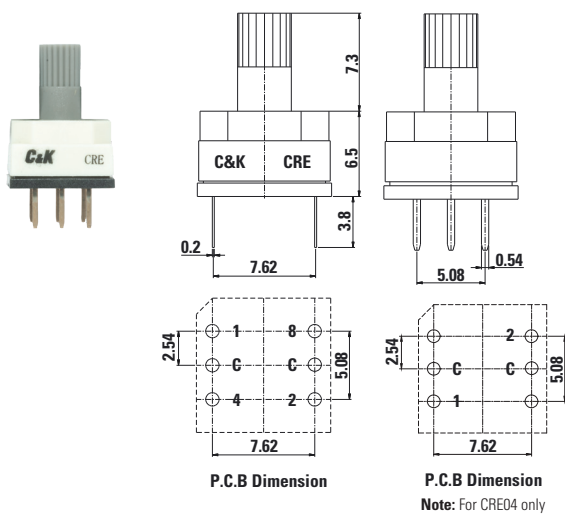


Figure 1 shows the dimensions of the C&K CRE module. The top view shows a rectangular module with a width of 12.00 mm and a height of 6.80 mm. The side view shows a height of 6.50 mm and a width of 5.08 mm. The bottom view shows a width of 14.60 mm and a height of 5.08 mm. The module is labeled 'C&K CRE'.

### Tape and Reel (mm)

