

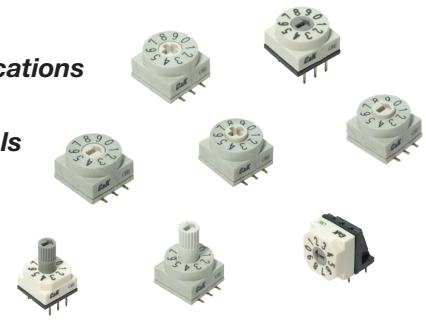
CRE Series 10mm DIP Coded Rotary Switches

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

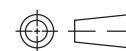
TERMINALS: Brass with Gold nickel plating

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.

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

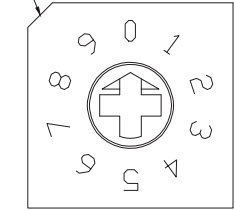
10 POSITION

	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	•	•	•	•	•

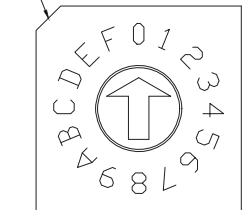
10 POSITION

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

16 POSITION

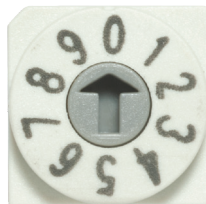
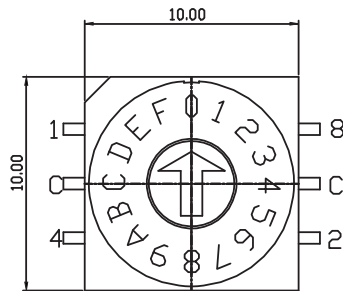
	C	1	2	4	8
16 POSITION					
0	•	•	•	•	•
1	•	•	•	•	•
2	•	•	•	•	•
3	•	•	•	•	•
4	•	•	•	•	•
5	•	•	•	•	•
6	•	•	•	•	•
7	•	•	•	•	•
8	•	•	•	•	•
9	•	•	•	•	•
A	•	•	•	•	•
B	•	•	•	•	•
C	•	•	•	•	•
D	•	•	•	•	•
E	•	•	•	•	•
F	•	•	•	•	•

PIN 1 INDICATOR

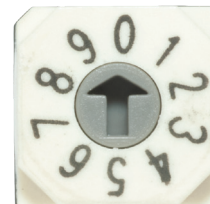
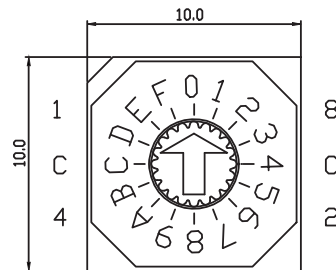


SHAPE OF SURFACE

RD Round Type



OT Octagon Type

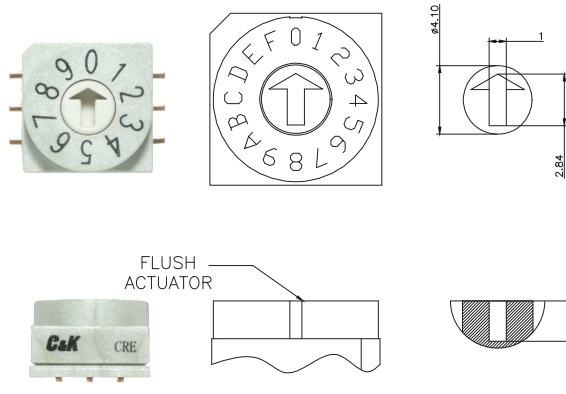


Third Angle
Projection

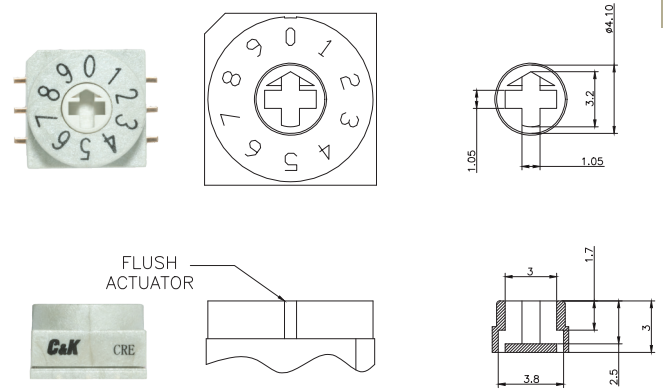
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ACTUATOR

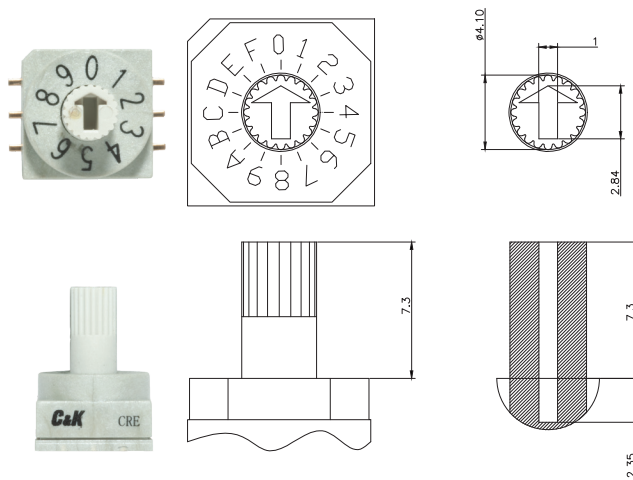
M0 Flush, Screw type “->”



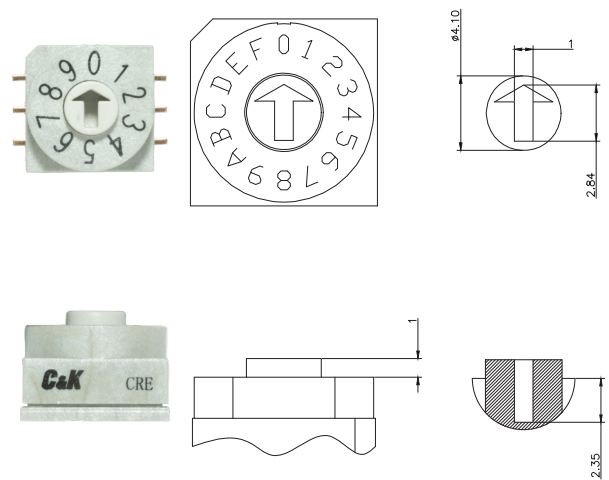
M1 Flush, Screw type “+”



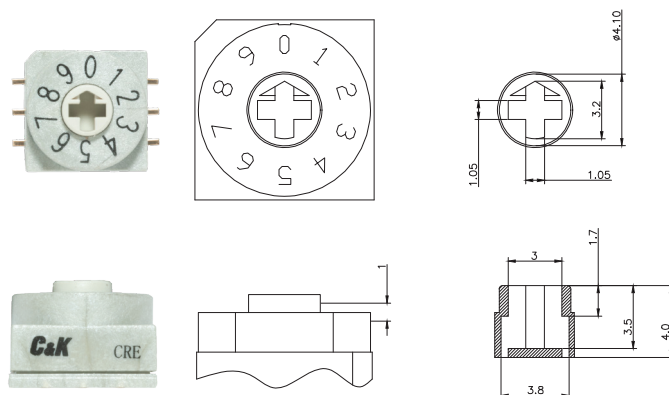
L0 Extended, Screw type “->”



P0 Protrusion, Screw type “->”



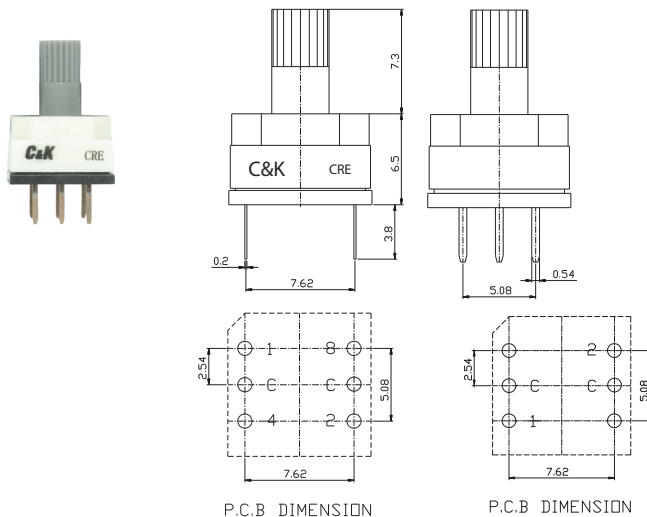
P1 Protrusion, Screw type “+”



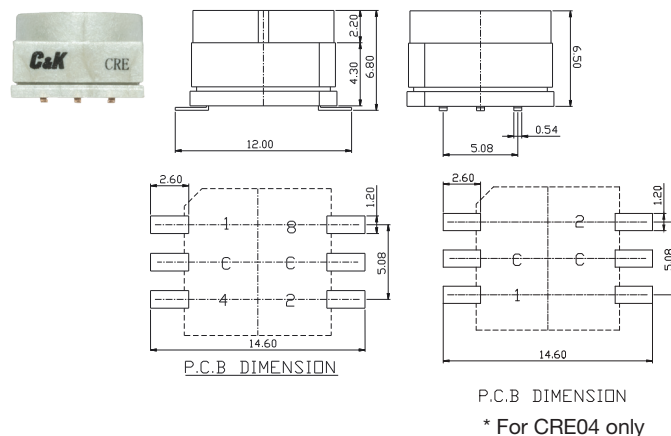
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TERMINATIONS

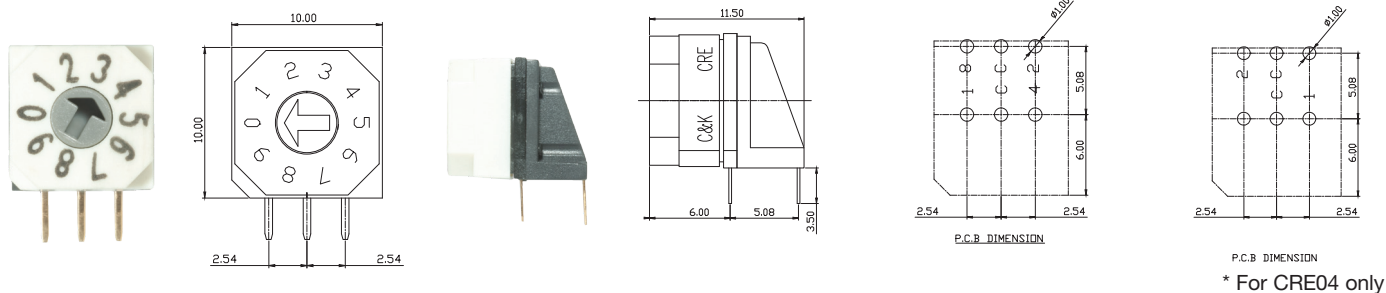
C PC Thru-hole



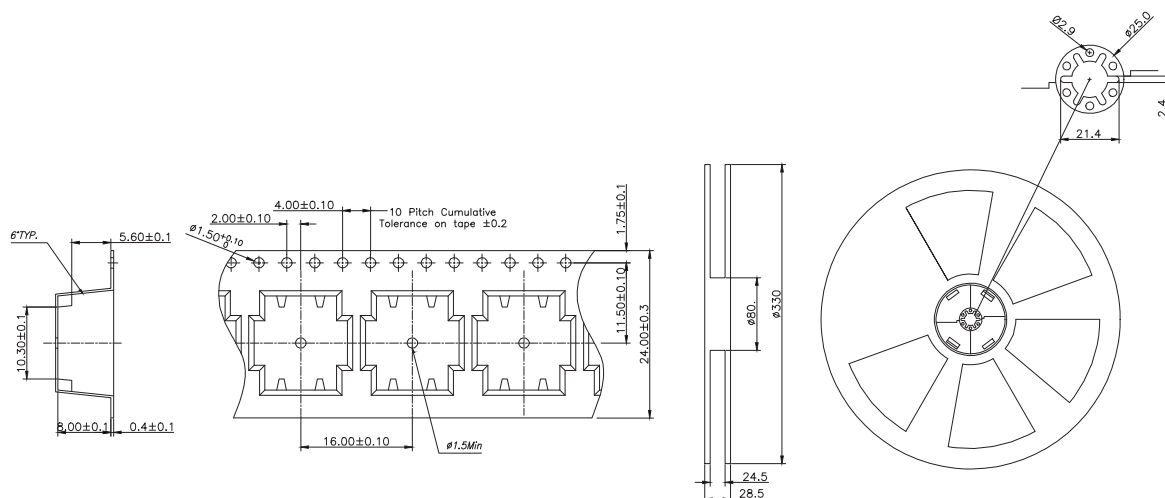
S Gull wing



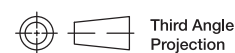
A Right Angle Thru-hole



TAPE & REEL



TAPE & REEL: 600 pcs



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