

In the UK and the USA, this series is sold as the PT65 series, with a grey case.

CR65 series

Rotary code switches

Through-hole



- ☐ 4 actuator types
- ☐ Save board space
- ☐ Highly reliable
- ☐ Solder and flux sealed, washable

CR65			
SERIES	Actuators	Codes	Terminals
	1 Screwdriver 3 Spindle 5 Segment wheel 7 Accessories	01 BCD 02 BCD complement 03 Hexadecimal 06 Hexadecimal complement	(none) Straight - L254 Right angle, spacing 2,54 (.100) - L508 Right angle, spacing 5,08 (.200)

ELECTRICAL SPECIFICATIONS

- Operating voltage : 24 VDC max.
- Contact load, static : 400mA max.
- Contact load, dynamic : 150mA max.
- Initial contact resistance : 80 mΩ max.
- Insulation resistance : 100 MΩ min.

MECHANICAL AND THERMAL SPECS

- Torque : 0,7 Ncm min.
- Expected life : 10.000 cycles min.
- Operating temperature : -20°C to +70°C

MATERIALS

- Base : UL94-V0, high temperature thermoplastic
- Cover : UL94-V0, high temperature thermoplastic
- Actuator : PA 4.6 nylon
- Contacts : gold over nickel plated phosphor bronze
- Terminals : tin plated

SOLDER RECOMMENDATIONS

(DIN CEI 68-2-20)

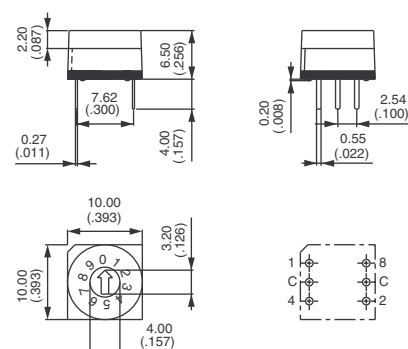
- Manual soldering : 340°C max. for 2 seconds max.
- Wave soldering : 260°C max. for 10 seconds max.

PACKAGING

- Switches for screwdriver slot or accessory actuation (CR651 and CR657) : tubes of 50 pieces
- Switches with spindle (CR653) or segment wheel (CR655) : candy trays of 50 pieces
- Accessories : bags of 50 pieces

DIMENSIONS

Screwdriver slot, straight terminals



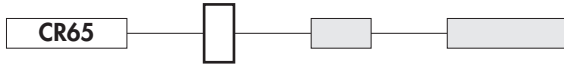
Dimensions : first dimensions are in mm while inches are shown as bracketed numbers.

CR65 series

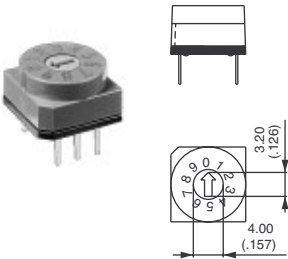
Rotary code switches

Through-hole

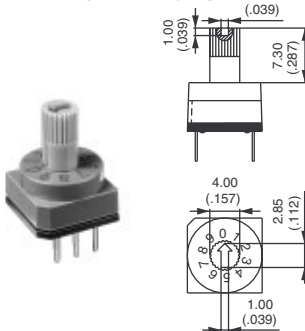
ACTUATORS



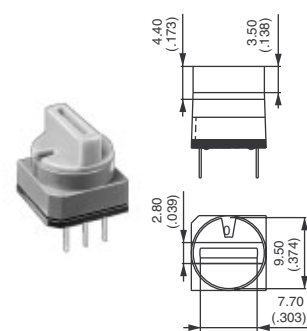
1 Screwdriver



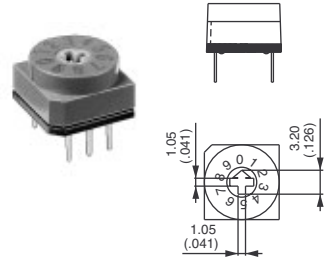
3 Spindle (grey)



5 Segment wheel (grey)

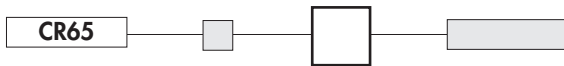


7 Accessories



See next page

CODES / TRUTH TABLES



01 BCD

	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

▲
Position

▲
Marking

02 BCD complement

	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

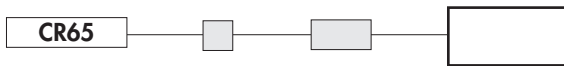
03 Hexadecimal

	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
10	●		●		●	A
11	●	●			●	B
12	●			●	●	C
13	●	●		●	●	D
14	●		●	●	●	E
15	●	●	●	●	●	F

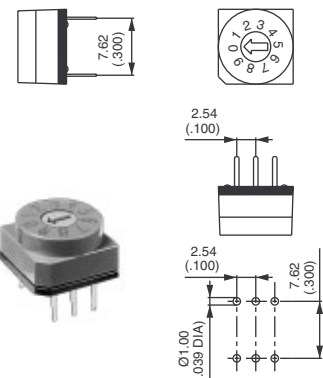
06 Hexadecimal complement

	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
10	●	●	●	●	●	A
11	●	●	●	●	●	B
12	●	●	●	●	●	C
13	●	●	●	●	●	D
14	●	●	●	●	●	E
15	●	●	●	●	●	F

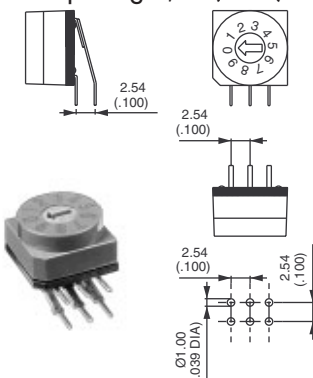
TERMINALS



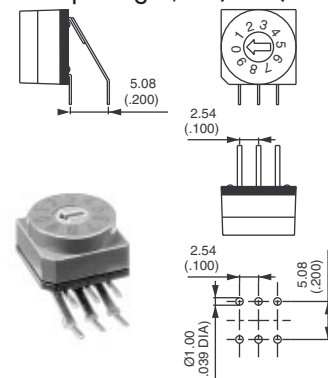
(none) Straight



L254 Right angle spacing 2,54 (.100)



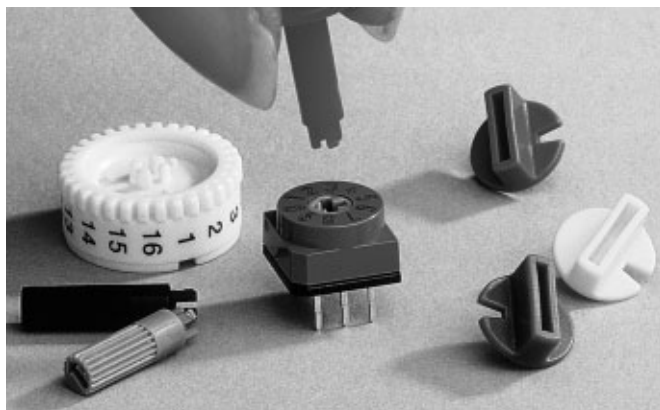
L508 Right angle spacing 5,08 (.200)



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Through-hole



ACCESSORIES ADAPTED TO YOUR APPLICATIONS

Basic model CR657 has been designed to accept different actuators with snap-in connection.

According to your application, you can choose between spindles or plastic knobs in two different lengths and a Ø 17 mm (.669) knurled wheel for lateral marking.

Standard colours are shown below. Special colours are also available on request.

SPINDLES Length 11,6 mm (standard) Length 13,3 mm	P/N U4822 U4824 U4832	COLOURS black grey black	
PLASTIC KNOBS Length 5,3 mm (standard) Length 15,7 mm Length 4,4 mm	P/N U4906 U4916 U4941 U4943 U4944 U4945 U4946	COLOURS red red blue green grey yellow red	
KNURLED WHEEL (unmarked - marking on request)	P/N U4847/1	COLOUR white/black	

STANDARD PRODUCTS

MODELS CODES	FOR SCREWDRIVER		WITH SPINDLE	WITH SEGMENT WHEEL		FOR ACCESS.
	Upper actuation	Side actuation	Upper actuation	Upper actuation	Side actuation	Upper actuation
BCD	CR65101	CR65101L254	CR65301	CR65501	-	CR65701
		CR65101L508			-	
BCD complement	CR65102	-	-	CR65502	-	-
Hexadecimal	CR65103	CR65103L254	CR65303	CR65503	CR65303L254	-
		CR65103L508				
Hexadecimal complem.	CR65106	-	-	-	-	-