

# CR65 SERIES

## ROTARY CODE SWITCHES

### • SAVE BOARD SPACE

Mounting in a hole pattern of 5,08 x 7,62 mm (.200 x .300), the CR65 series rotary switches are available in BCD or hexadecimal codes (real and complement).

Their compact housing is designed for professional technology with modern assembly processes.

### • FACILITATE CODE SELECTION

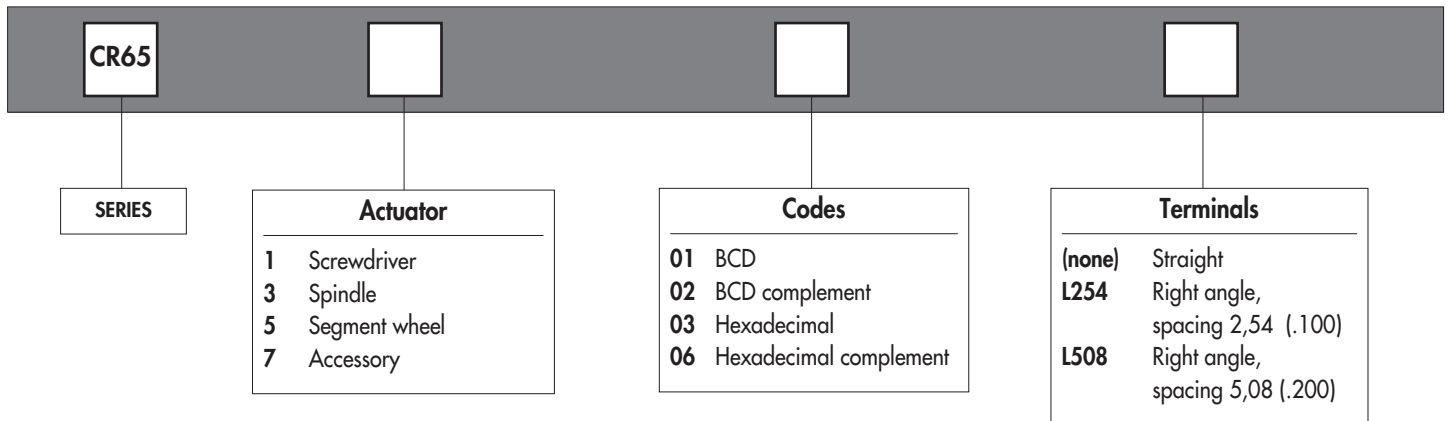
A precise detent mechanism and a rotation in both directions make code selection particularly easy.

Setting is effected by means of a screwdriver slot, segment wheel or accessory, depending on the application.

### • HIGHLY RELIABLE

The contact resistance is low and stable. All switches are submitted to electric final test. They are solder, flux sealed and washable.

Production under ISO 9001 quality assurance is a guarantee for highly reliable products.



### 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

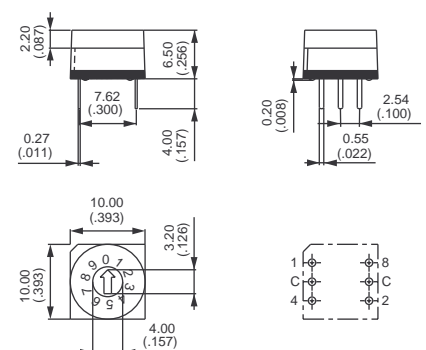
- (DIN CEI 68-2-20)
- Manual soldering : 340°C max. for 2 seconds max.
  - Wave soldering : 260°C max. for 10 seconds max.

### 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

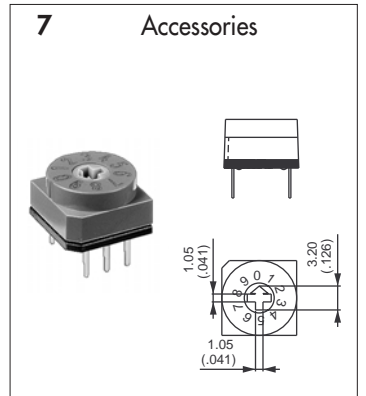
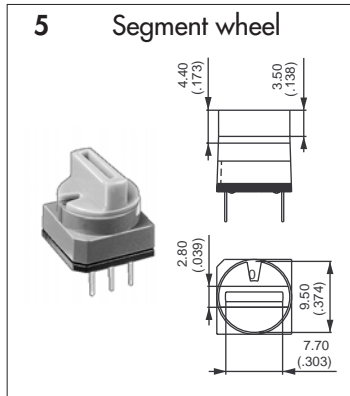
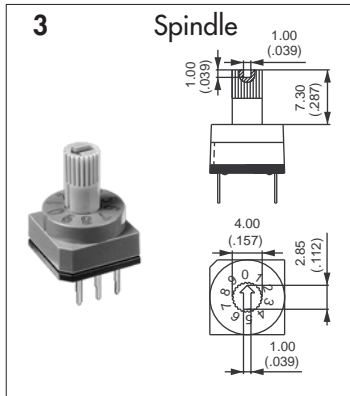
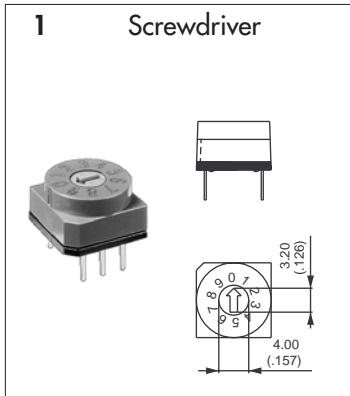
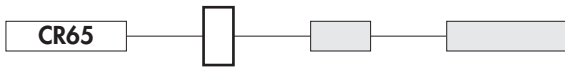
Screwdriver slot, straight terminals



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

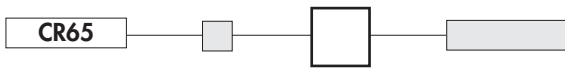
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## ACTUATORS



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

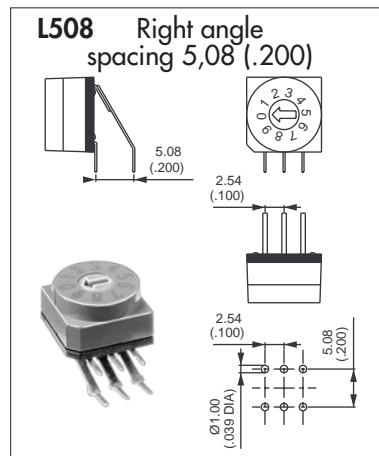
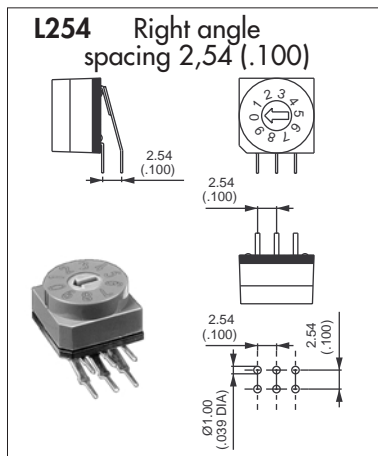
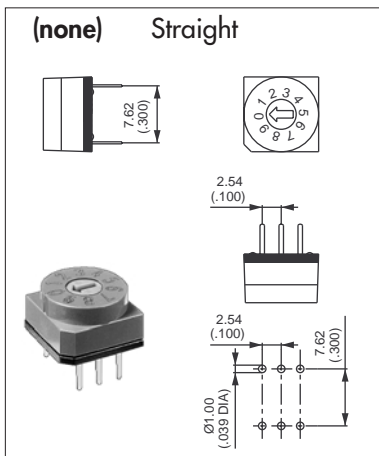
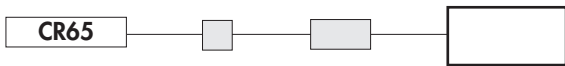
**03 Hexadecimal**

	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**

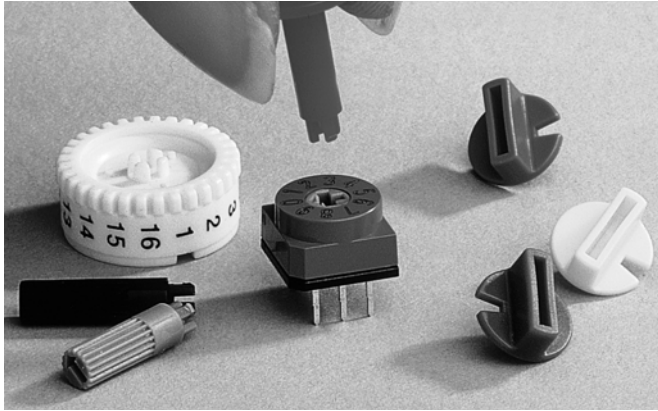
	C	1	2	4	8	
0	●	●	●	●	●	0
1	●		●	●	●	1
2	●	●		●	●	2
3	●		●		●	3
4	●	●	●		●	4
5	●		●		●	5
6	●	●		●		6
7	●			●		7
8	●	●	●	●		8
9	●		●	●		9
10	●	●		●		A
11	●		●		●	B
12	●	●	●			C
13	●		●	●		D
14	●	●		●	●	E
15	●					F

## TERMINALS



# CR65 SERIES

## ROTARY CODE SWITCHES



### 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.

<b>SPINDLES</b>	Length 11,6 mm (standard)	<b>P/N</b> <b>U4822</b>	<b>COLOUR</b> black	
	Length 13,3 mm	<b>U4824</b>	grey	
		<b>U4832</b>	black	
<b>PLASTIC KNOBS</b>	Length 5,3 mm (standard)	<b>P/N</b> <b>U4906</b>	<b>COLOUR</b> red	
	Length 15,7 mm	<b>U4916</b>	red	
		<b>U4941</b>	blue	
		<b>U4943</b>	green	
		<b>U4944</b>	grey	
		<b>U4945</b>	yellow	
		<b>U4946</b>	red	
	Length 4,4 mm			
<b>KNURLED WHEEL</b>	(unmarked - marking on request)	<b>P/N</b> <b>U4847/1</b>	<b>COLOUR</b> 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	<b>CR65101</b>	<b>CR65101L254</b> <b>CR65101L508</b>	<b>CR65301</b>	<b>CR65501</b>	-	<b>CR65701</b>
BCD complement	<b>CR65102</b>	-	-	<b>CR65502</b>	-	-
Hexadecimal	<b>CR65103</b>	<b>CR65103L254</b> <b>CR65103L508</b>	<b>CR65303</b>	<b>CR65503</b>	<b>CR65303L254</b>	-
Hexadecimal complem.	<b>CR65106</b>	-	-	-	-	-