

# PT65 series

## Rotary code switches

Through-hole

Outside the US and the UK, this series is sold as the CR65 series with a blue case.

UG1410A



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

PT65			
<b>SERIES</b>	<b>Actuators</b>	<b>Codes</b>	<b>Terminals</b>
	<ul style="list-style-type: none"><li>1 Screwdriver</li><li>3 Spindle</li><li>5 Segment wheel</li><li>7 Accessories</li></ul>	<ul style="list-style-type: none"><li>01 BCD</li><li>02 BCD complement</li><li>03 Hexadecimal</li><li>06 Hexadecimal complement</li></ul>	<ul style="list-style-type: none"><li>(none) Straight</li><li>L254 Right angle, spacing 2,54 (.100)</li><li>L508 Right angle, spacing 5,08 (.200)</li></ul>

### 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, grey
- Actuator : PA 4.6 nylon
- Contacts : gold over nickel plated phosphor bronze
- Terminals : tin plated

### SOLDER RECOMMENDATIONS

(DIN CEI 68-2-20)

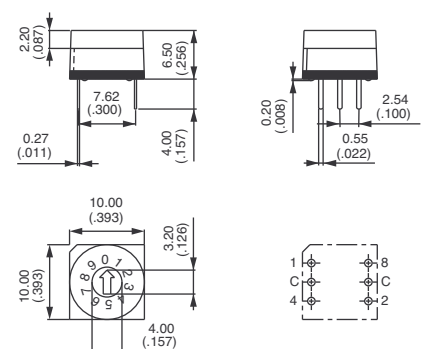
- Manual soldering : 340°C max. for 2 seconds max.
- Wave soldering : 260°C max. for 10 seconds max.

### PACKAGING

- Switches for screwdriver slot or accessory actuation (PT651 and PT657) : tubes of 50 pieces
- Switches with spindle (PT653) or segment wheel (PT655) : 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.

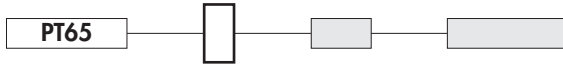
The company reserves the right to change specifications without notice.

# PT65 series

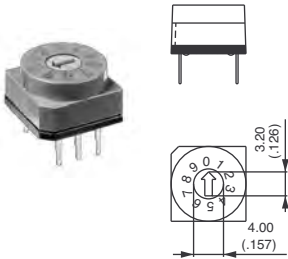
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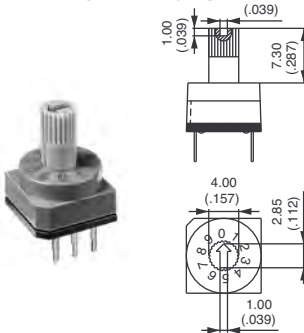
### ACTUATORS



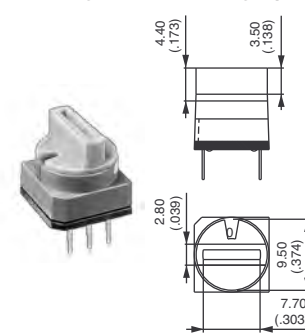
#### 1 Screwdriver



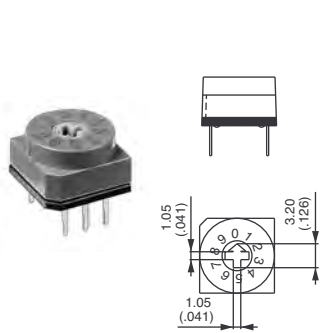
#### 3 Spindle (grey)



#### 5 Segment wheel (grey)



#### 7 Accessories



See next page

### CODES / TRUTH TABLES



01	BCD				
	C	1	2	4	8
0	●	●	●	●	●
1	●	●	●	●	●
2	●	●	●	●	●
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●
6	●	●	●	●	●
7	●	●	●	●	●
8	●	●	●	●	●
9	●	●	●	●	●

▲ Position      ▲ Marking

02	BCD complement				
	C	1	2	4	8
0	●	●	●	●	●
1	●	●	●	●	●
2	●	●	●	●	●
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●
6	●	●	●	●	●
7	●	●	●	●	●
8	●	●	●	●	●
9	●	●	●	●	●

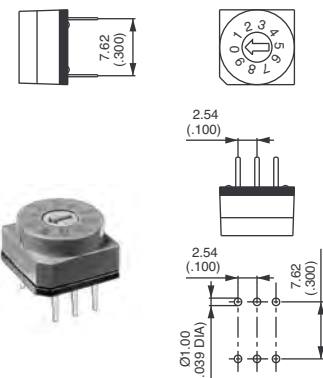
03	Hexadecimal				
	C	1	2	4	8
0	●	●	●	●	●
1	●	●	●	●	●
2	●	●	●	●	●
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●
6	●	●	●	●	●
7	●	●	●	●	●
8	●	●	●	●	●
9	●	●	●	●	●
10	●	●	●	●	●
11	●	●	●	●	●
12	●	●	●	●	●
13	●	●	●	●	●
14	●	●	●	●	●
15	●	●	●	●	●

06	Hexadecimal complement				
	C	1	2	4	8
0	●	●	●	●	●
1	●	●	●	●	●
2	●	●	●	●	●
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●
6	●	●	●	●	●
7	●	●	●	●	●
8	●	●	●	●	●
9	●	●	●	●	●
10	●	●	●	●	●
11	●	●	●	●	●
12	●	●	●	●	●
13	●	●	●	●	●
14	●	●	●	●	●
15	●	●	●	●	●

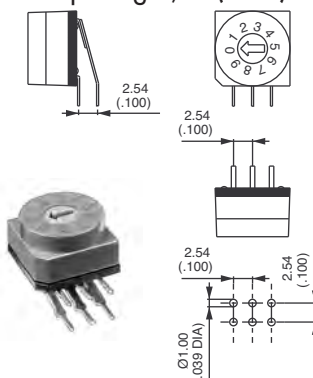
### TERMINALS



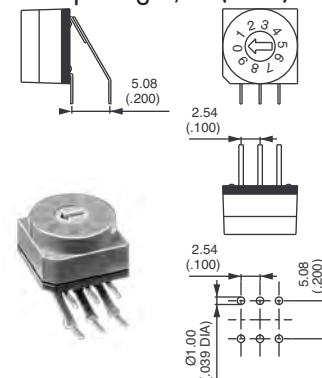
#### (none) Straight



#### L254 Right angle spacing 2,54 (.100)



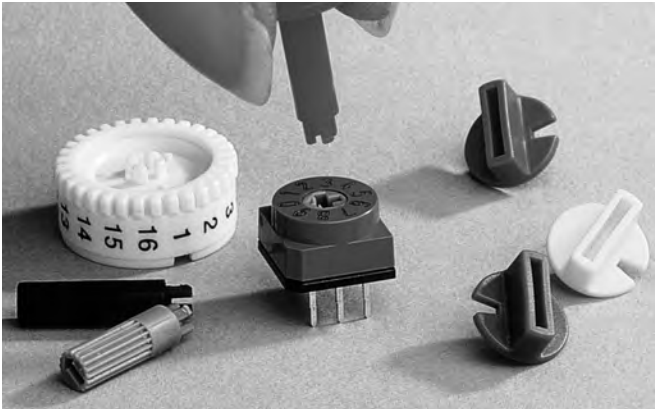
#### L508 Right angle spacing 5,08 (.200)



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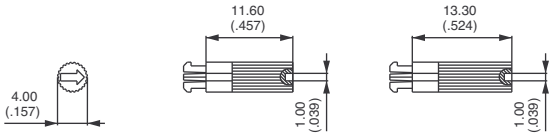
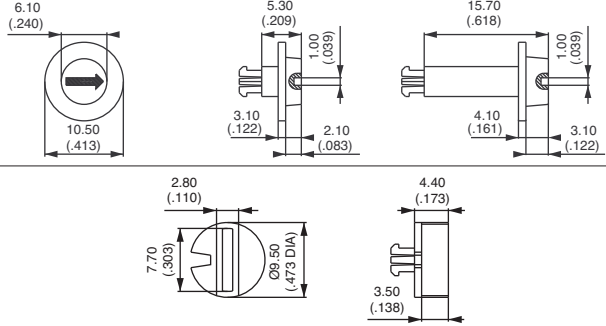
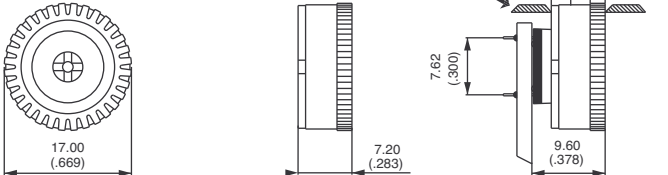


### ACCESSORIES ADAPTED TO YOUR APPLICATIONS

Basic model PT657 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)  Length 13,3 mm	<b>P/N</b> <b>U4822</b> <b>U4824</b> <b>U4832</b>	<b>COLOURS</b> black grey black	
<b>PLASTIC KNOBS</b>  Length 5,3 mm (standard) Length 15,7 mm  ( Length 4,4 mm	<b>P/N</b> <b>U4906</b> <b>U4916</b>  <b>U4941</b> <b>U4943</b> <b>U4944</b> <b>U4945</b> <b>U4946</b>	<b>COLOURS</b>  red red  blue green grey yellow red	
<b>KNURLED WHEEL</b>  (unmarked - marking on request)	<b>P/N</b> <b>U4847/1</b>	<b>COLOUR</b> white/black	→ Panel 

### 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>PT65101</b>	<b>PT65101L254</b>	<b>PT65301</b>	<b>PT65501</b>	-	<b>PT65701</b>
BCD complement	<b>PT65102</b>	-			-	-
Hexadecimal	<b>PT65103</b>	<b>PT65103L254</b>	<b>PT65303</b>	<b>PT65503</b>	<b>PT65303L254</b>	-
Hexadecimal complem.		<b>PT65103L508</b>				
Hexadecimal complem.	<b>PT65106</b>	-	-	-	-	-

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[PT65701](#) [PT65101L254](#) [PT65121](#) [PT65121L508](#) [PT65106](#) [PT65101](#) [PT65117](#) [PT65301V](#) [PT65102](#) [PT65102L254](#)  
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