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.



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

PT65 | ☐ | ☐ | ☐

SERIES

Actuators

1	Screwdriver
3	Spindle
5	Segment wheel
7	Accessories

Codes

01	BCD
02	BCD complement
03	Hexadecimal
06	Hexadecimal complement

Terminals

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

SOLDER RECOMMENDATIONS

(DIN CEI 68-2-20)

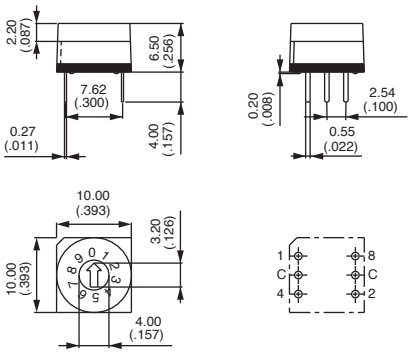
- Manual soldering : 340°C max.for 2 seconds max.
- Wave soldering : 260°C max. for 10 seconds max.

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

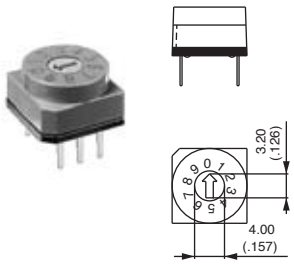


Dimensions : first dimensions are in mm while inches are shown as bracketed numbers.

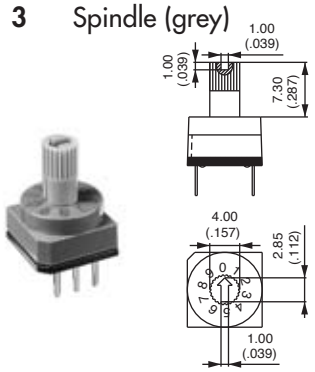
ACTUATORS

PT65

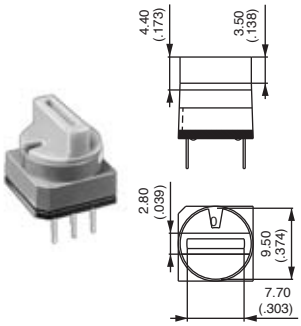
1 Screwdriver



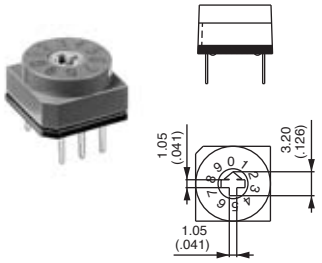
3 Spindle (grey)



5 Segment wheel (grey)



7 Accessories



See next page

CODES / TRUTH TABLES

PT65

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

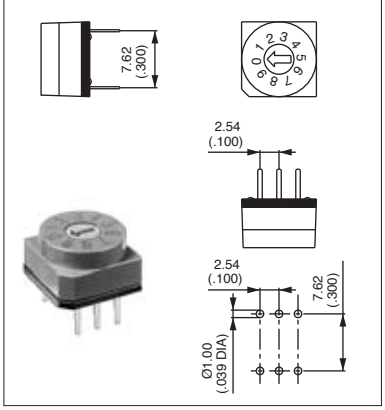
06 Hexadecimal complement

	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

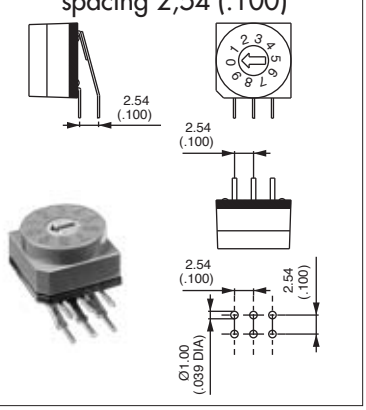
TERMINALS

PT65

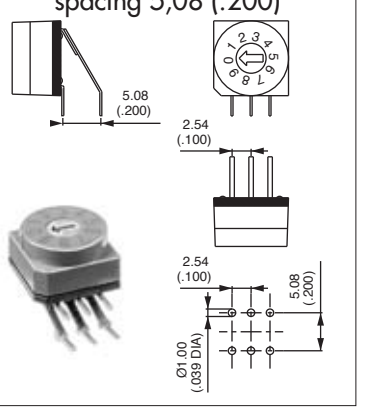
(none) Straight



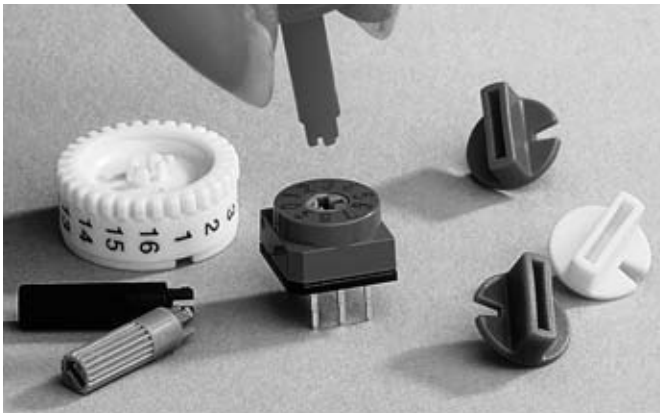
L254 Right angle
spacing 2,54 (.100)



L508 Right angle
spacing 5,08 (.200)



F



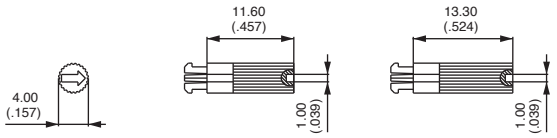
ACCESSORIES ADAPTED TO YOUR APPLICATIONS

Basic model PT65**7** has been designed to accept different actuators with snap-in connection.

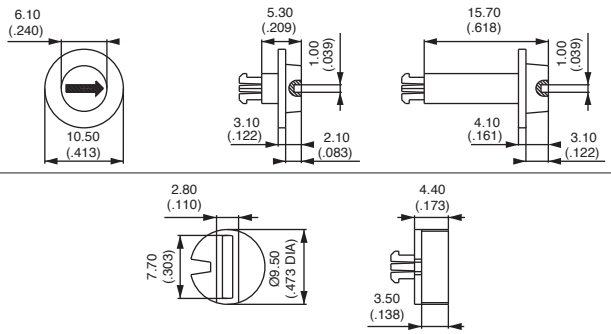
According to your application, you can choose between spindles or plastic knobs in two different lengths and a Ø 17 mm (.669) knurled wheel for lateral marking.

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

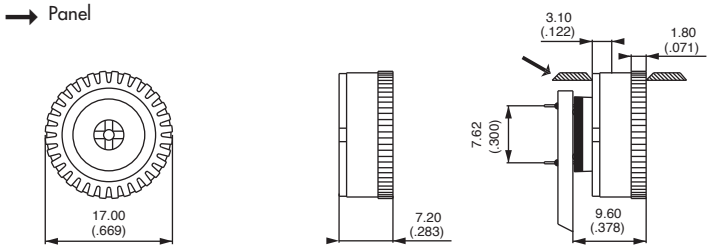
SPINDLES	**P/N**	**COLOURS**
Length 11,6 mm (standard)	**U4822**	black
	U4824	grey
Length 13,3 mm	**U4832**	black



PLASTIC KNOBS	**P/N**	**COLOURS**
Length 5,3 mm (standard)	**U4906**	red
Length 15,7 mm	**U4916**	red
Length 4,4 mm	**U4941**	blue
	U4943	green
	U4944	grey
	U4945	yellow
	U4946	red



KNURLED WHEEL	**P/N**	**COLOUR**
(unmarked - marking on request)	**U4847/1**	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	**PT65101**	**PT65101L254**	**PT65301**	**PT65501**	-	**PT65701**
		PT65101L508			-	-
BCD complement	**PT65102**	-	-	**PT65502**	-	-
Hexadecimal	**PT65103**	**PT65103L254**	**PT65303**	**PT65503**	**PT65303L254**	-
		PT65103L508				
Hexadecimal complem.	**PT65106**	-	-	-	-	-