

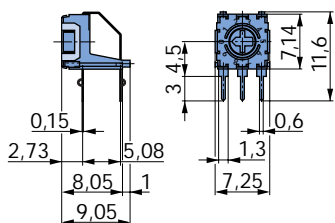
Coded Switches Type C74

Phase-out product
Available until December 2005

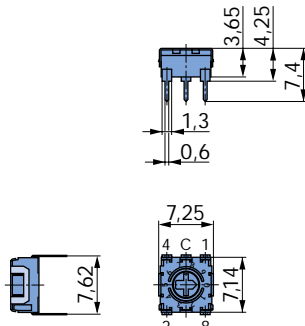
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THT (DIL)

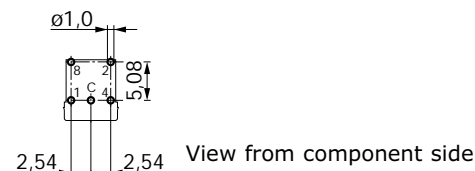
Horizontal



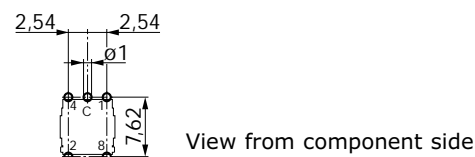
Vertical



Drilling diagram (horizontal)

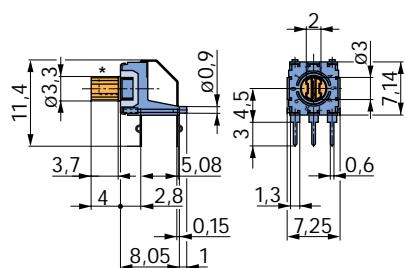


Drilling diagram (vertical)

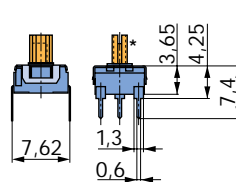


THT (DIL), for push-on shaft

Horizontal

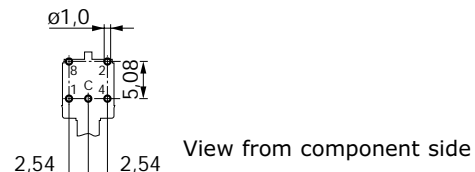


Vertical

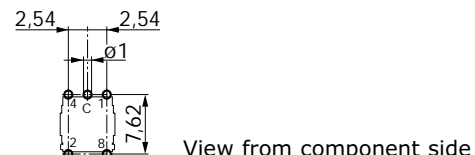


*Yellow section is the connection piece to push-on your custom knob

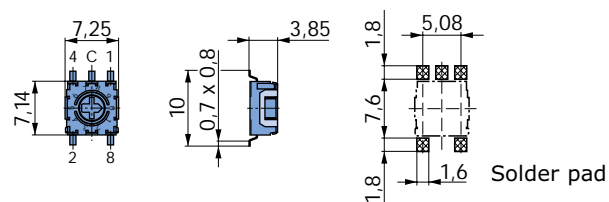
Drilling diagram (horizontal)



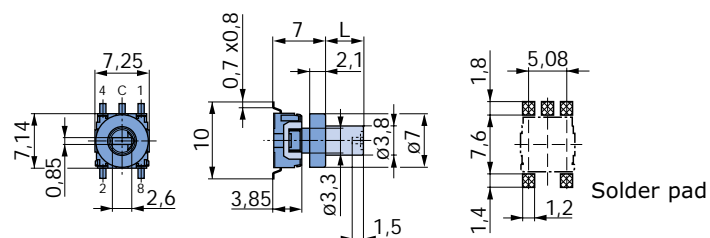
Drilling diagram (vertical)



SMD Gull-wing, vertical



SMD Gull-wing, vertical, with knob for snap-in shaft (incl. shaft)



Standard shafts:
L = 5 mm black or grey
L = 11,5 mm black or grey
with screwdriver slot

The shaft is packaged separately and can be snapped into the switch

Coded Switches Type C74

Phase-out product
Available until December 2005

Description

BCD-, HEX or Gray coding.

Switching mode non-shorting.

Horizontal or vertical version.

Sealed and washable

Absolute determined position indexing

Terminations for direct mounting on circuit boards
2,54 mm (0,1") pitch

Indexing positions according to the code 16, 10 or 8 positions without stop

Technical information

Mechanical data

Indexing mechanism

45° = 8 positions
36° = 10 positions
22,5° = 16 positions

Switching torque

1,5 Ncm
± 0,3 Ncm

Temperature range

Storage temperature:
- 55 °C to + 135 °C
Operating temperature:
- 50 °C to + 125 °C

Life

> 200 rotations
(at switching torque 1,5 Ncm)

Vibration resistance

10-500 Hz/50 g

Material data

Housing

Nirosta / stainless steel

Insulation

high quality temperature resistant thermoplastic / thermoplast UL94-V0

Contact parts

Alloy copper gold plated

Soldering data

Hand soldering

Plastic wafer ≤ 5 s / ≤ 260 °C

Machine soldering

Wave ≤ 5 s / ≤ 260 °C
Reflow (THR) ≤ 5 s / ≤ 260 °C

Electrical data

Switching voltage

≤ 30 V

Switching current

≤ 0,1 A

Insulation resistance

> 100 mΩ

Contact resistance

< 100 mΩ in new conditions

Capacitance

< 2 pF

Various

Sealed and washable

Coding

HEX

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

HEX compl.

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

BCD

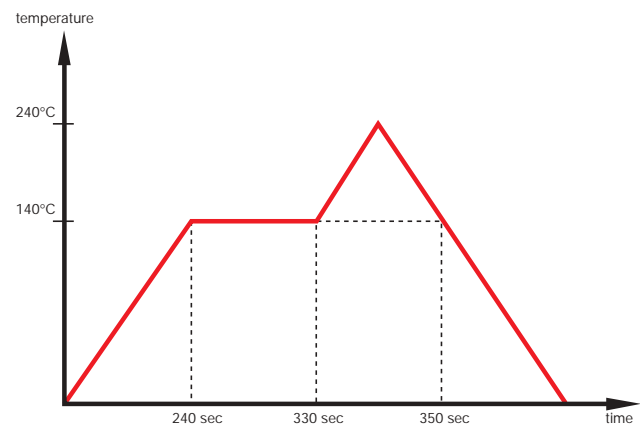
	2 ³	2 ²	2 ¹	2 ⁰
0				
1				●
2			●	
3			●	●
4		●		
5		●		●
6		●	●	
7		●	●	●
8	●			
9	●			●

BCD compl.

	2 ³	2 ²	2 ¹	2 ⁰
0	●	●	●	●
1	●	●	●	
2	●	●		●
3	●	●		
4	●		●	●
5	●		●	
6	●			●
7	●			
8		●	●	●
9		●	●	

Gray code

	2 ³	2 ²	2 ¹	2 ⁰
0				
1				●
2			●	●
3			●	
4		●	●	
5		●	●	●
6		●		●
7		●		
8	●	●		
9	●	●		●



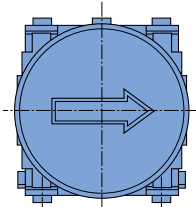
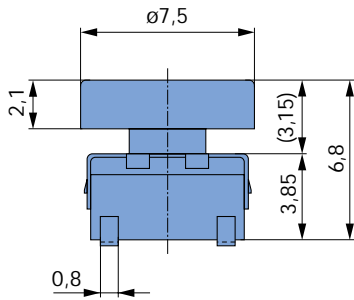
Special Options Type C74

Phase-out product
Available until December 2005

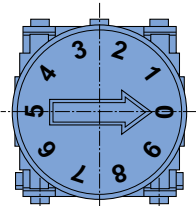
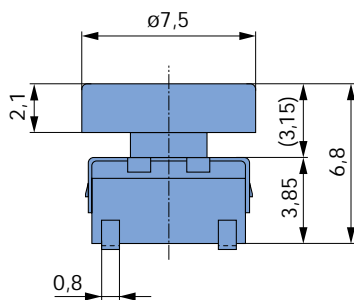
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Ordering an option

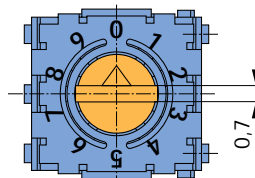
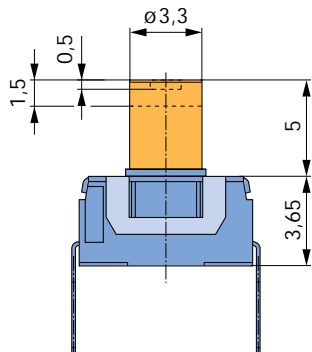
To order a special option please use the ordering code on page 74.



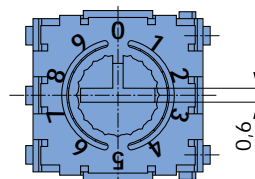
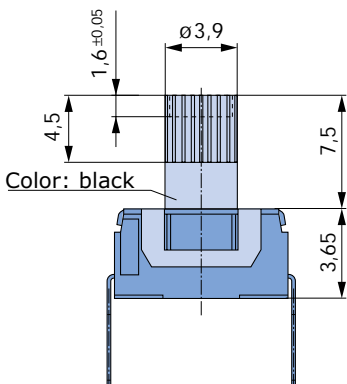
Integrated knob
ø 7,5 mm unprinted
Code 07



Integrated knob
ø 7,5 mm printed
Code 08



Integrated shaft with
arrow (THT only)
Code 05



Knurled shaft* (THT only)
Code 11

* pressure bonded

Please note:

Because of the modular construction theoretically all variations are possible.

The switches with integrated shafts are not suitable for pick & place. We suggest to use the version with knob for snap-in shaft for SMD-processing. At the version with knob for snap-in shaft the snap-in shaft is packed separately and can be snapped into the switch after the reflow process.

SMD Packaging to Coded Switches Type C74

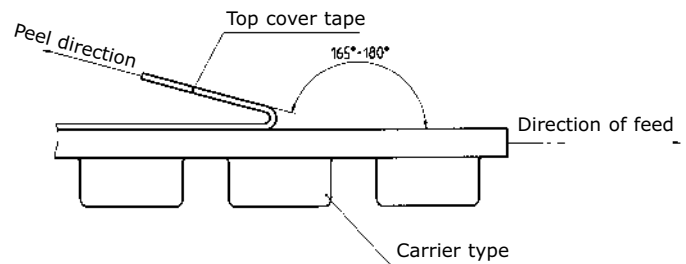
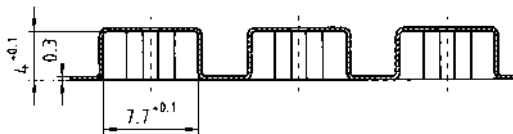
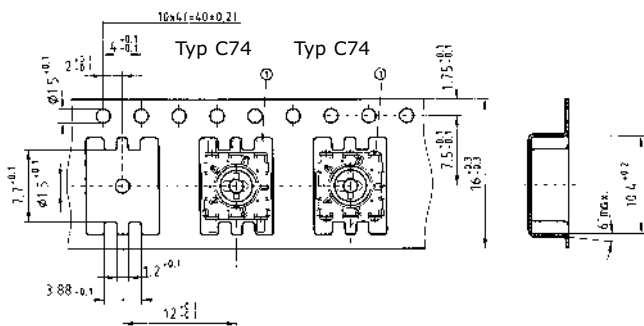
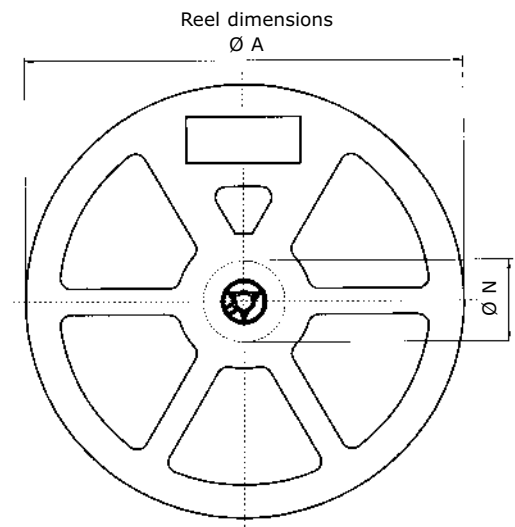
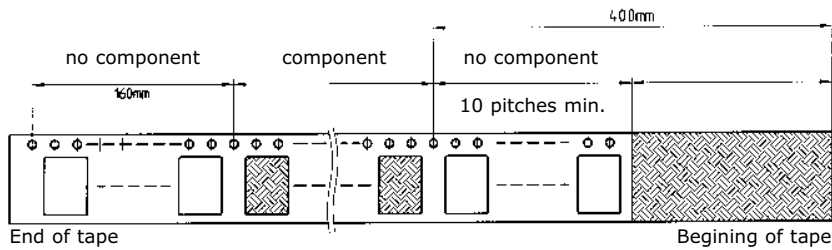
Phase-out product
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Tape & reel packaging specifications

materials

<i>Tape</i>	Top cover tape
PE-Plastic	
<i>Reel</i>	<i>Top cover tape peel of angle</i>
PE-Paper	165° ~ 180°
<i>Pull strength</i>	<i>Peel speed</i>
min. 10 Nm	300 mm/min
	<i>Peel force</i>
	0,1 ~ 0,7 Nm

Embossed tape dimensions



Packaging quantities

C74 without knob

No. of pieces	Dimension «A»	Dimension «N»
300	180 mm	62 mm
1500	330 mm	60 mm

C74 with knob

No. of pieces	Dimensions «A»	Dimensions «N»
100	180 mm	62 mm
800	330 mm	60 mm

Ordering Code Type C74

Phase-out product
Available until December 2005

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This code specifies the function of the switch.

C74 - 0 - X X X X X X - X X 0 X


Switch type
(C = Coded switch)
(7 = 7 x 7 mm)
(4 = Height 3,65 mm)


Factory set character



Switch version
1 = vertical
2 = horizontal



Codes
1 = BCD 10 Positions (yellow)
2 = BCD - compl. 10 positions (red)
3 = Hex 16 positions (blue)
4 = Hex - compl. 16 positions (green)
5 = Gray-Code 10 positions (light grey)
8 = BCD 8 positions (black)
B = Decimal 4 pos. (brown)
G = Gray Code 16 pos. (light grey)



Shaft- and knob version

01 = without knob (THT/SMD) 



04 = for put-on shaft (only for THT) 

05 = with integrated shaft with arrow
Diameter 3.3 mm (only for THT)  


07 = with unprinted knob (THT/SMD)  


08 = with printed knob (THT/SMD)  

not available in horizontal Switch version

11 = with knurled shaft, diameter 3.9 mm
pressure bonded (only for THT)  

not available in horizontal Switch version

12 = with knob for snap-in shaft (THT/SMD)
not available in horizontal Switch version
shaft length 5 mm 

18 = with knob for snap-in shaft (THT/SMD)
not available in horizontal Switch version
shaft length 11.5 mm 

Packing
1 = Palette (160 pcs.)
2 = Tape & Reel (see page 73)

Factory sett character

Switching torque
15 = 1.5 N
(Life 200 rotations)

Shaft color
0 = standard
(version 01, 04, 05, 07, 08, 11)
snap in shaft
1 = black (version 12, 18)
6 = grey (version 12, 18)

push on shaft (color of shaft extension equal color of coding, version 04, 05, 11)

Terminal design

	vertical	horizontal
1 = with pin (THT)	X	
2 = SMD Gull-wing	X	X
3 = SMD J-Hook	X	
4 = with "Snap in" pins	X	

Legend: x = options to choose from