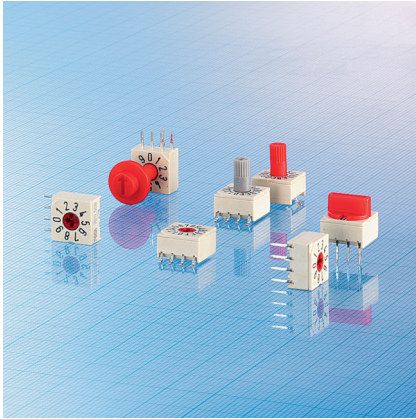


Miniature Code Switch SCS10



SCS 10 · Code switch



SCS 10 · Additional actuators

Washtight miniature code switch for direct soldering to printed circuits and SMT.

- Pins in grid 4 + 1.
- BCD or hexadecimal code, 10 or 16 switching positions.
- Shaft parallel or rectangular to PC-board.
- Operating by plastic shaft, segment wheel or operating knob with cross slot.
- Small dimensions: 10x10x6,5 mm.
- Very long life-expectancy.
- Impermeable to flux and cleaning agents, therefore easy processing
- Insensitive to aggressive atmosphere, dust etc.
- Switches are delivered with screw-driver slot (X). – Please order additional actuators separately.

1.0 Construction

1.1 Number of wafers max.	1 Wafer
1.2 Switching combinations per wafer Design D, detent angle 36°	Code 51, BCD; Code 52, BCD-Complement
Design H, detent angle 22,5°	Code 61, Hexadecimal Code 62, Hexadecimal-Complement
1.3 Contacts	Soldering pins · SMT – Gullwing
1.4 Mounting	Soldering

2.0 Electrical Data

2.1 Switching power max.	3,6 VA/W
2.2 Switching voltage max.	24 V~
2.3 Switching current max.	150 mA
2.4 Rest current max. at θ_u 20°C	400 mA
2.5 Test voltage at 50 Hz	250 V
2.6 Life expectancy without electrical load	$\geq 10\,000$ detents
with power max.	$\geq 10\,000$ detents
2.7 Contact resistance initial value	$\leq 100\,m\Omega$
2.8 Insulation resistance	$\geq 10^8\,\Omega$

3.0 Mechanical Data

3.1 Stops	Without stop
3.2 Operating torque	$\geq 0,7\,Nm$
3.3 Vibratory strength	10 g, 10–500 Hz
3.4 Shock strength	50 g
3.5 Dust protection	Sealed wafers

4.0 Other Data

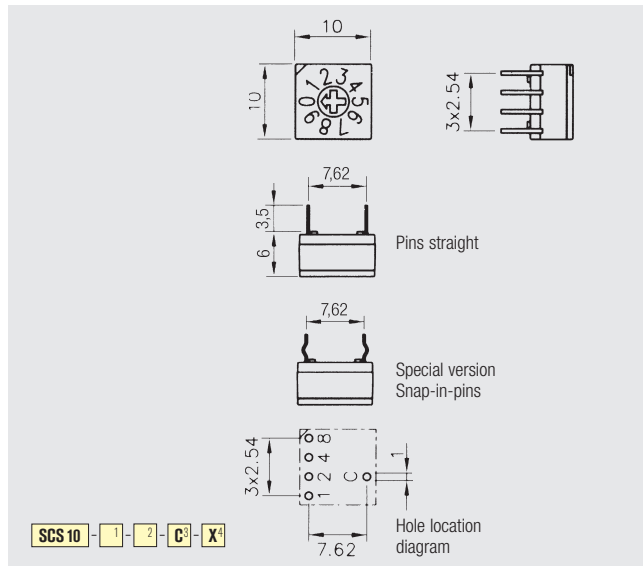
4.1 Contact material	Au
4.2 Insulating material	Polyacetal, POM; UL94 V1; Code PM
4.3 Ambient temperature	–20 to 85°C
4.4 Soldering time and temperature max.	2 s/340°C manual soldering 10 s/260°C with wave soldering 40 s/215°C with reflow soldering

Ordering Codes

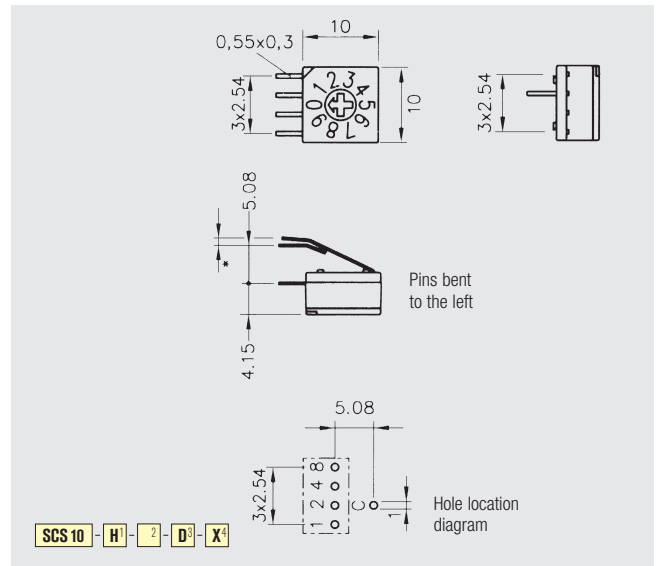
Designation of type	SCS 10
1. Code	51, 52, 61 or 62
2. Distribution over 360°	10 or 16
3. Contacts and mounting position	C = PC pins 7,62 mm: Vertical mounting, shaft rectangular to PC board D = PC pins 5,08 mm: Horizontal mounting, shaft parallel to PC board B = Gullwing for SMT: Vertical mounting, shaft rectangular to PC board
4. Operation mode	X = Screw-driver slot (please order additional actuators separately)

The bold-typed data in the yellow order blocks remain unchanged.
Blanks need to be completed according to the ordering details on the previous page.

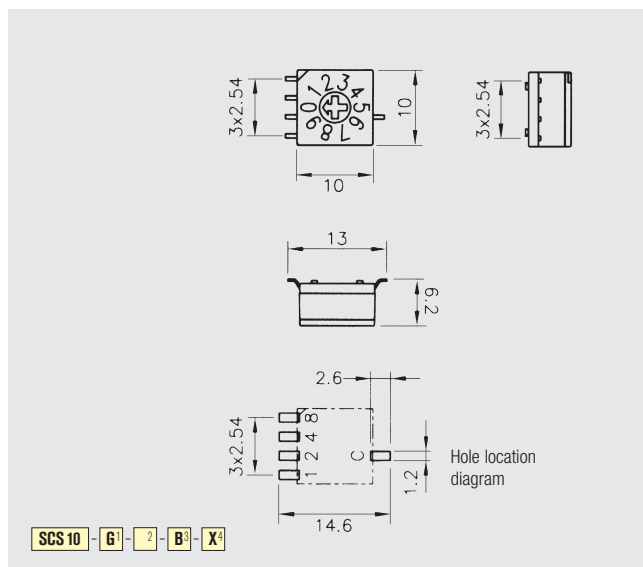
Dimensional Drawings · Dimensions in mm



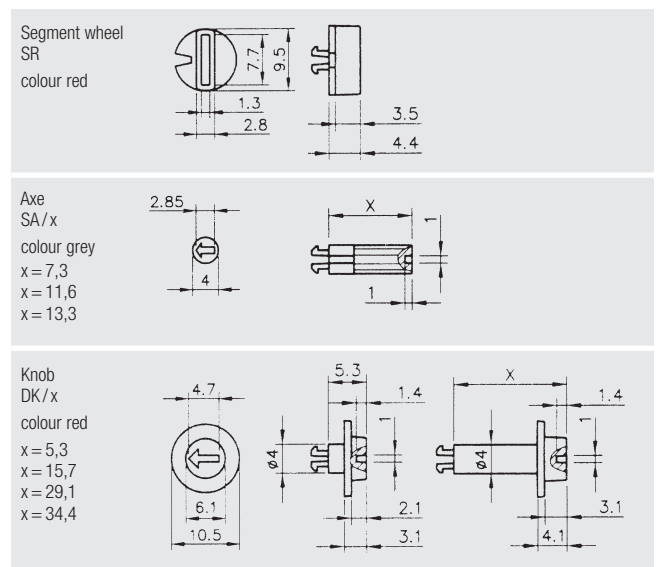
SCS 10 · Standard version



SCS 10 · Horizontal version



SCS 10 · SMT version



SCS 10 · Additional operating elements

Code 51 BCD	Code 52 BCD Complement	Code 61 Hexadecimal	Code 62 Hexadecimal Complement
51	52	61	62
C connect- ed with	C connect- ed with	C connect- ed with	C connect- ed with
1 2 4 8	1 2 4 8	1 2 4 8	1 2 4 8
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
		A	A
		B	B
		C	C
		D	D
		E	E
		F	F

SCS 10 · Codes