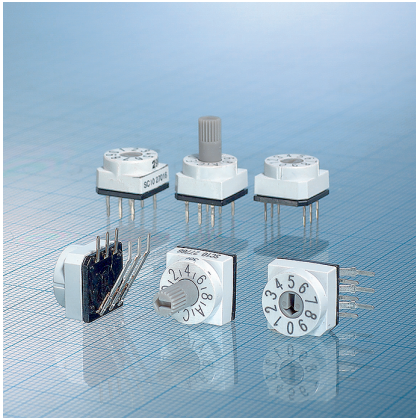


# Miniature Code Switch SC10, watertight



Washtight miniature code switch for direct soldering to printed circuits.

- Pins in grid 3+3.
- BCD or hexadecimal code, 10 or 16 switching positions.
- Shaft parallel or rectangular to PC-board.
- Operating by plastic shaft, screwdriver slot or operating knob.
- Small dimensions: 10x10x6,5 mm.
- High life-expectancy.
- Trouble-free mounting due to tightness, against flux and cleaning agents.
- Insensitive to aggressive atmosphere, dust etc.
- Switches are delivered with screw-driver slot. – If additional actuators shall be mounted, version X with cross slot has to be ordered separately. Additional actuators have to be ordered separately.
- Packed in tubes of 50 switches each.

## 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
1.4 Mounting	Soldering

## 2.0 Electrical Data

2.1 Switching power max.	1,5 VA/W
2.2 Switching voltage max.	24 V~
2.3 Switching current max.	150 mA
2.4 Rest current max. at $\partial u$ 20°C	400 mA
2.5 Test voltage at 50 Hz	100 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 $\leq 80\text{ m}\Omega$ after life expectancy $\leq 100\text{ m}\Omega$
2.8 Insulation resistance	$\geq 10^8\Omega$

## 3.0 Mechanical Data

3.1 Stops	Without stop
3.2 Operating torque	$\geq 0,5\text{ Ncm}$
3.3 Vibratory strength	10 g, 10–500 Hz
3.4 Shock strength	50 g
3.5 Dust protection	Sealed wafers
3.6 Cleaning *	Complete immersion in ultrasonic bath

\* With the known agents as Freon, Methanol, Trichloräthylen etc.

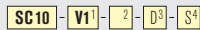
## 4.0 Other Data

4.1 Contact material	Au
4.2 Insulating material	Polyacetal, POM, UL94 V1; Code PM
4.3 Ambient temperature	–20 to 70°C
4.4 Soldering time and temperature max.	10 s at 260°C 2 s at 340°C

### Ordering Codes

Designation of type	SC 10
1. Contacts and mounting position	V1 = PC pins 7,62 mm: Vertical mounting, shaft rectangular to PC board H1 = PC pins 2,54 mm: Horizontal mounting, shaft parallel to PC board H2 = PC pins 5,08 mm: Horizontal mounting, shaft parallel to PC board
2. Code	51, 52, 61 or 62
3. Distribution	D = 10, H = 16
4. Operation mode	S = Screw driver slot, X = Cross slot for additional actuator

### Dimensional Drawings · Dimensions in mm

SC10 - H1<sup>1</sup> - 2 - D<sup>3</sup> - S<sup>4</sup>SC10 - H2<sup>1</sup> - 2 - D<sup>3</sup> - S<sup>4</sup>

Knob  
DK/x  
colour red

x = 5,3  
x = 15,7  
x = 29,1  
x = 34,4

The technical drawing shows three views of a red knob. The front view is a circle with a diameter of 6.1 and a central hole with a diameter of 4.7. The side view shows a knob with a total width of 5.3, a central hole with a diameter of 4, and a mounting plate with a width of 1.4. The top view shows a knob with a total width of 10.5, a central hole with a diameter of 6.1, and a mounting plate with a width of 1.4. The mounting plate has a thickness of 2.1 and a total height of 3.1. The knob has a diameter of 4.1 and a total height of 4.1. The mounting plate has a total width of 4.1 and a total height of 3.1. The knob has a total width of 4.1 and a total height of 4.1. The mounting plate has a total width of 4.1 and a total height of 3.1. The knob has a total width of 4.1 and a total height of 4.1. The mounting plate has a total width of 4.1 and a total height of 3.1.

Code 62  
Hexadecimal  
Complement

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