

# **CODE SWITCH** COMMUTATORI A CODICE

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# SC17

## Commutatore a codice miniaturizzato multiuso | Multi codifica | A tenuta stagna | per PCB



Multi-purpose miniature code switch with many standard codes and detent angle variations.

- Standard codes:
- BCD with even parity.
- BCD with even parity and direct control of 7 segment displays.
- BC D-complement: 2 out of 5, Excess 3, Gray, Aiken, Dezimal 0–9 (1 out of 10) and hexadecima I.
- Further cod es on request.
- Suitable for cleaning in ultrasonic bath.
- Same construction enables to use code switches and step switches (1out of 10) together.
- Direct control of 7 segment displays simplifies the switching arrangement.
- Miniature dimensions: 17,0 x17,0 x 11,4 mm – 1 wafer.
- Direct soldering to PC boards.
- Shaft parallel or vertical to PC board (single-wafer version).
- Operating by shaft or screwdriver slot.
- Very long life-expectancy.

## Special versions

- Type SC M 17 approved acc. to VG 0095 318 T13.
- Version with self-returning detent mechanism on request.
- Version with thread M 10 x 0,75 and shaft 6 mm.
- Type SC D 17, detent angle 36°, with 2 wafers to be operated independently. Wafer 1 operated in normal shaft position, Wafer 2 operated by pushing the shaft. After operation the switch returns to normal position.

#### **1.0 Construction** 1.1 Number of wafers max 3 wafers 1.2 Switching combinations per wafer Code on request Design B, detent angle 60 ° Design D, detent angle 36° See code tables Design E, detent angle 30° Code on request Design H, detent angle 22,5° See code tables Design N, detent angle 18° Code on request 1.3 Contacts Soldering pins 1.4 Mounting Soldering, holding clamps or central mounting 2.0 Electrical Data 2.1 Switching power 3 VA/W max. 5 · 10 - 7W min. 2.2 Switching voltage 30 VV max. 10 mVV min. 2.3 Switching current 100 mA max. 50 µA min. 2.4 Rest current max. at ∂u 20°C 0,5A 2.5 Test voltage at 50 Hz 100 V 2.6 Life expectancy ≥<u>50000 cycles</u> without electrical load ≥ 20 0<u>00 cycles</u> with power max 2.7 Contact resistance initial value ≤100 mΩ after life expectancy with electrical load ≤200 mΩ 2.8 Insulation resistance $\geq 10^{10} \Omega$ 2.9 Capacity between 2 contacts ≤2 pF Capacity between contact and ground ≤2 pF 3.0 Mechanical Data 3.1 Stops Fixed or without stop 3.2 Operating torque 3 bis 10 Ncm 3.3 Stop strength ≥ 70 Ncm 3.4 Vibratory strength 10 g, 10 - 500 Hz 3.5 Shock strength 50 g, 11 ms 3.6 Waterproofing Watertight against front panel up to 0,2 bar

3.7 Cleaning\*

\* With known agents as Freon, Arklone etc.

## 4.0 Other Data

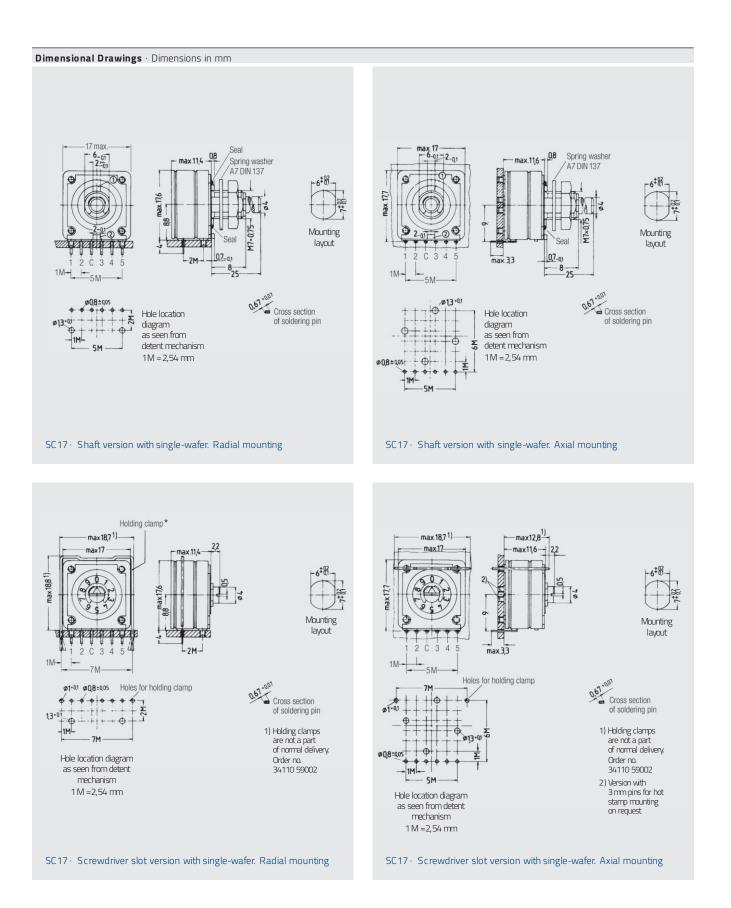
4.1 Cont act material		Au
4.2 Insulating material	Wafer	Polybutylenterephthalate, PBTP; Code PB
	Rotor	Epoxide glass laminate, EP
4.3 Soldering time and temperature max.		5s at 260°C

Ordering Codes	
Designation of type	SC 17
1. Number of wafers	1, 2 or 3
2. Code	31, 52, 54, 56, 61, 71, 72 or 75
3. Distribution over 360°	10 or 16
4. Shaft length	in mm
5. Shaft design	A = Standard, D = Turnscrew version
6. Switching limit	<b>00</b> = without stop (limit to XX positions)
7. Operating mode	1 = Cent ral mounting, 4 = Sold ering pins
8. Direction of contacts	A = axial, R = radial

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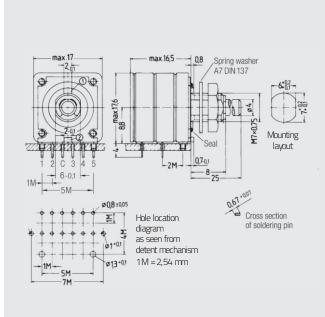
Complete immersion in ultrasonic bath

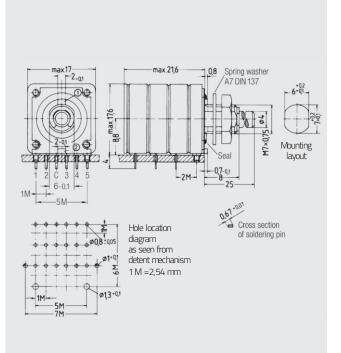






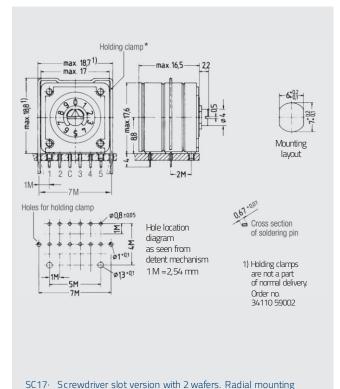
### Dimensional Drawings · Dimensions in mm

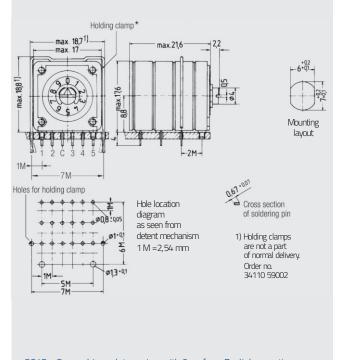




## SC17· Shaft version with 2 wafers. Radial mounting

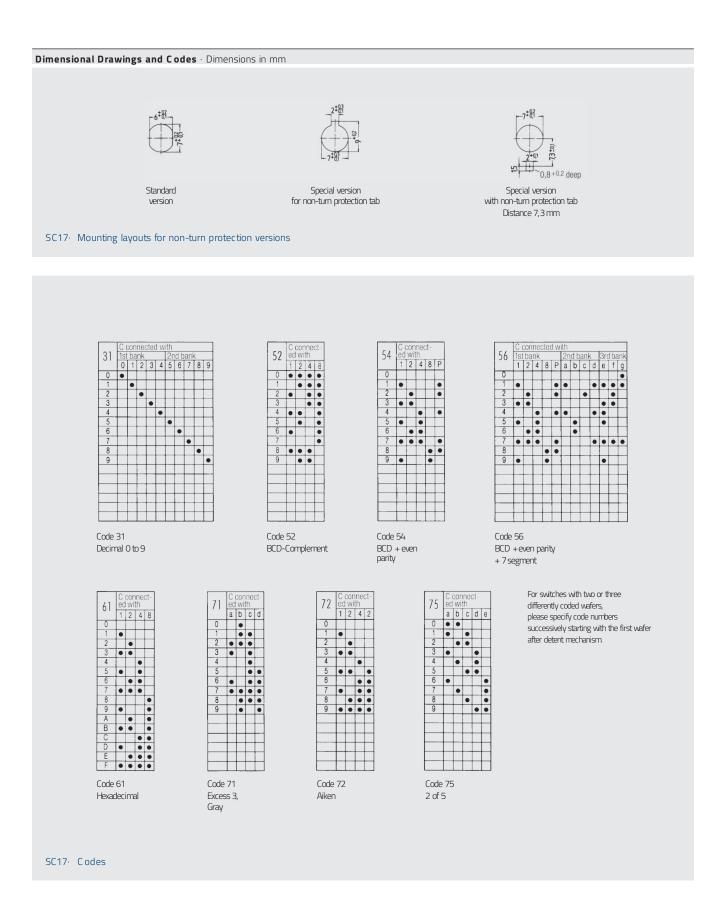






SC17. Screwdriver slot version with 3 wafers. Radial mounting





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