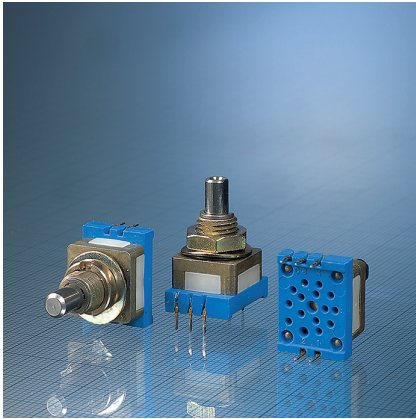


Miniature Code Switch SC12



Code switch with miniature dimensions.
Contact pins in module grid 2,54 mm.

- Plastic detent mechanism and thermo-plastic laminated switching wafer.
- PC pins and contacts are made of one piece for safe soldering, particularly under severe environmental conditions.
- Codes: BCD, BCD-Complement or Hexadecimal.
- Special designs:
 - Central mounting with optional axle or flange sealing.
 - Mounting with additional no-turn-protection frame on request.

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
1.3 Contacts	Soldering pins
1.4 Mounting	Central mounting

2.0 Electrical Data

2.1 Switching power max.	1,5 VA/W
2.2 Switching voltage max.	30 V $\approx$
2.3 Switching current max.	50 mA
2.4 Rest current max. at ∂u 20°C	2 A
2.5 Test voltage at 50 Hz	200 V
2.6 Life expectancy	without electrical load $\geq 20\,000$ cycles
	with power max. $\geq 10\,000$ cycles
2.7 Contact resistance	initial value $\leq 60\,m\Omega$
	Contact resistance without electrical load $\leq 100\,m\Omega$
	after life expectancy with electrical load $\leq 100\,m\Omega$
2.8 Insulation resistance	$\geq 10^{10}\,\Omega$
2.9 Capacity between 2 contacts	$\leq 2\,pF$
	Capacity between contact and ground $\leq 2\,pF$

3.0 Mechanical Data

3.1 Stops*	Fixed or without stop
3.2 Operating torque	3–8 Ncm
3.3 Stop strength	≥ 50 Ncm
3.4 Fastening torque	≤ 70 Ncm
3.5 Dust protection	Sealed wafers
3.6 Waterproofing	With 0,2 bar as special design
3.7 Vibratory strength	10 g, 10–500 Hz
3.8 Shock strength	50 g, 11 ms

* With code no. 61 without stop only.

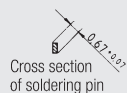
4.0 Other Data

4.1 Contact material	Au over Ni barrier layer
4.2 Insulating material	Code 51 and 52 Polybutylenterephthalate, PBTB; Code PB
Wafer	Code 61 Epoxide glass laminate, EP
4.3 Detent mechanism zinc die casted	Zinc case with plastic detent mechanism
4.4 Soldering time and temperature max.	5 s at 235°C

Ordering Codes

Designation of type	SC 12
1. Number of wafers	1
2. Code	51, 52 or 61
3. Distribution over 360°	10 or 16
4. Shaft length	in mm
5. Shaft design	A = Standard
6. Switching limit	00 = without stop (limit to XX positions)
7. Insulating material	PB or EP

Dimensional Drawings · Dimensions in mm



Mounting layout
for special version with non-turn
protection frame

The pocket hole for non-turn protection
may also be performed
as drill hole $\varnothing 2,5 \pm 0,1$.
For watertight mounting
depth $0,8 \pm 0,2$

SC12 - 1¹ - 2 - D³ - 15⁴ - A⁵ - 6 - PB⁷

Mounting layout

SC12 - 1¹ - 2 - H³ - 15⁴ - A⁵ - 6 - EP⁷

61	C. connect- ed with			
	1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●			
6		●	●	
7	●	●	●	
8				●
9	●			●
A		●		●
B	●			
C			●	●
D	●			
E		●	●	●
F	●	●	●	●

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