

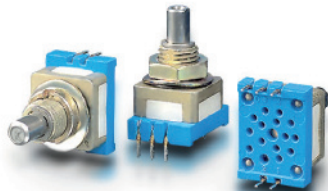
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CODE SWITCH COMMUTATORI A CODICE

SC12

Commutatore rotativo miniaturizzato codifica BCD, BCD complementare o esadecimale per circuito stampato



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 VV
2.3 Switching current max.	50 mA
2.4 Rest current max. at θ_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	$\geq 50\,Ncm$
3.4 Fastening torque	$\leq 70\,Ncm$
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, 11ms

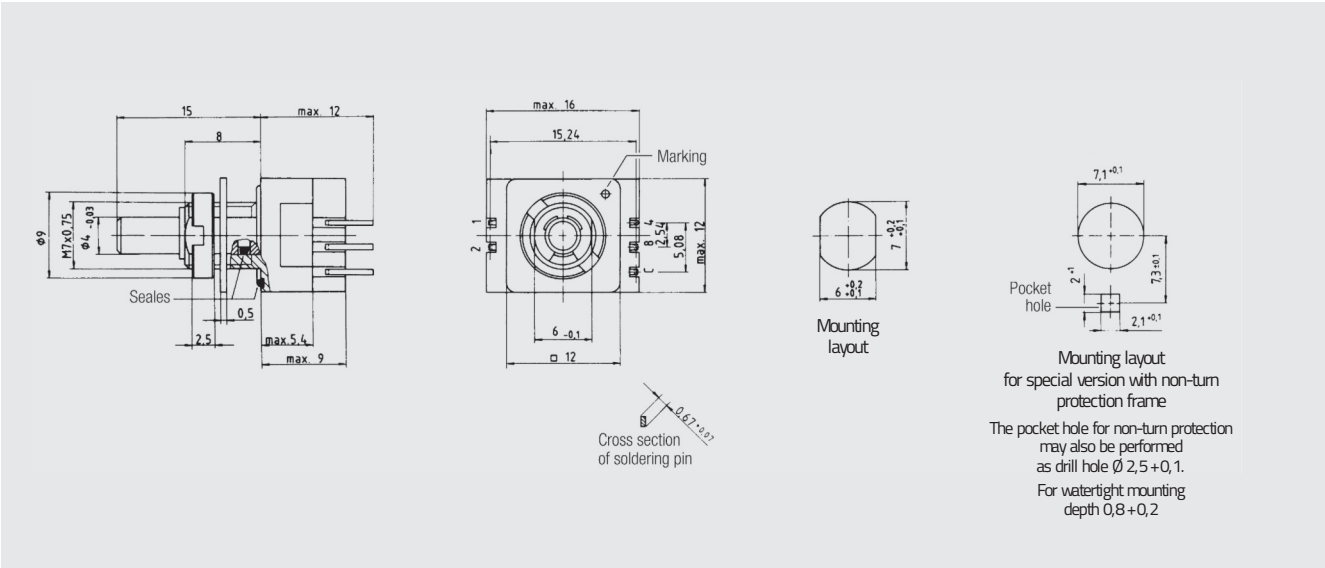
* With code no.61 without stop only.

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

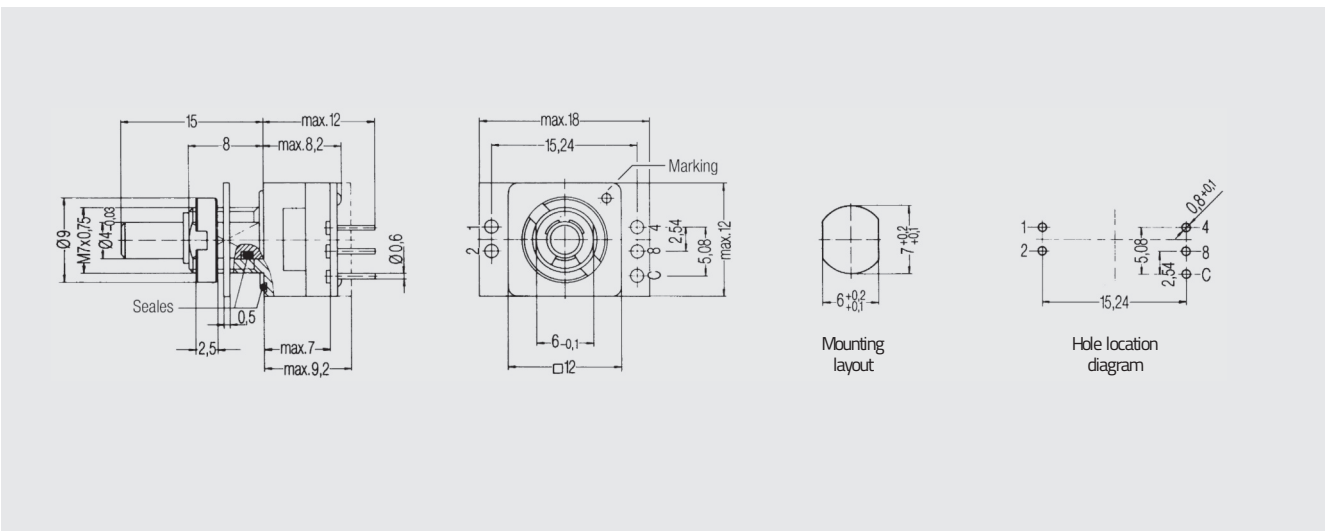
Ordering Codes

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

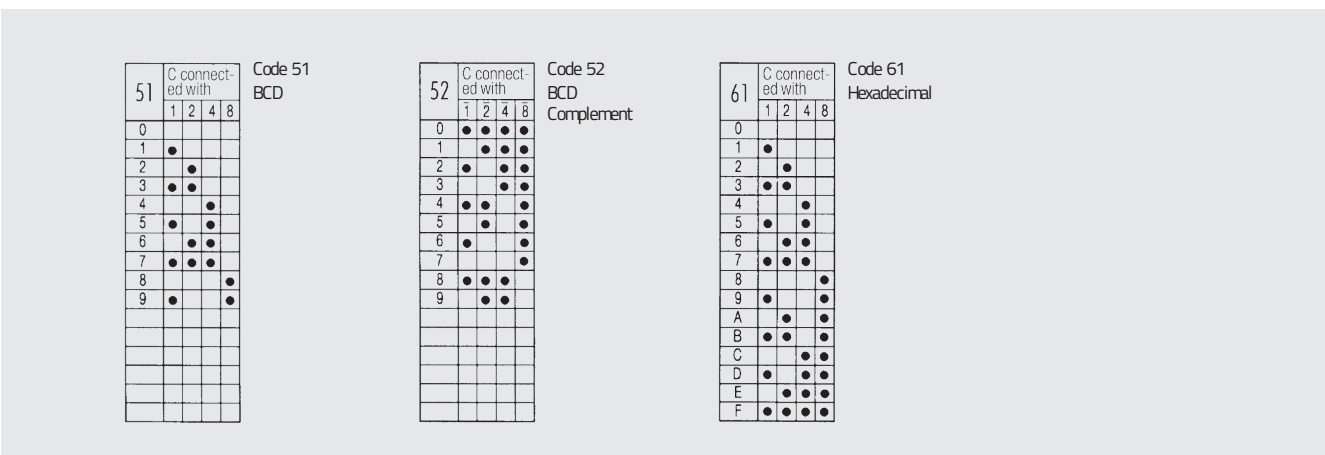
Dimensional Drawings · Dimensions in mm



SC 12 · Design D, detent angle 36°



SC 12 · Design H, detent angle $22,5^\circ$



SC 12 · Codes

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