SC12 – HMI-Switches

DESCRIPTION

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

- Plastic detent mechanism and thermoplastic 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 axeor flange sealing.
- Mounting with additional no-turn-protection frame on request.

EBE Elektro-Bau-Elemente GmbH
Sielminger Straße 63
70771 Leinfelden-Echterdingen

TECHNICAL DATA

CONSTRUCTION AND MECHANICAL DATA , TYPICAL VALUES (T=23°C)

NUMBER OF WAFERS MAX.	1 wafer
SWITCHING COMBINATIONS PER WAFER **DESIGN D, DETENT ANGLE 36°** **DESIGN H, DETENT ANGLE 22.5°**	 Code 51 BCD; Code 52 BCD-Complement Code 61; Hexadecimal
CONTACTS	Soldering pins
MOUNTING	central mounting
STOPS*	Fixed or without stop
OPERATING TORQUE	3-8 Ncm
CONTACT MATERIAL	Au over Ni barrier layer
INSULATING MATERIAL WAFER CODE 51/52	PBTB (PB)
INSULATING MATERIAL WAFER CODE 61	Epoxide glass laminate EP
SOLDERING TIME AND TEMP.	5 s at 235°C

*with code no. 61 without stop only.

ELECTRICAL DATA, TYPICAL VALUES (T=23°C)

SWITCHING POWER MAX.	1.5 VA/W
SWITCHING CURRENT MAX.	50 mA

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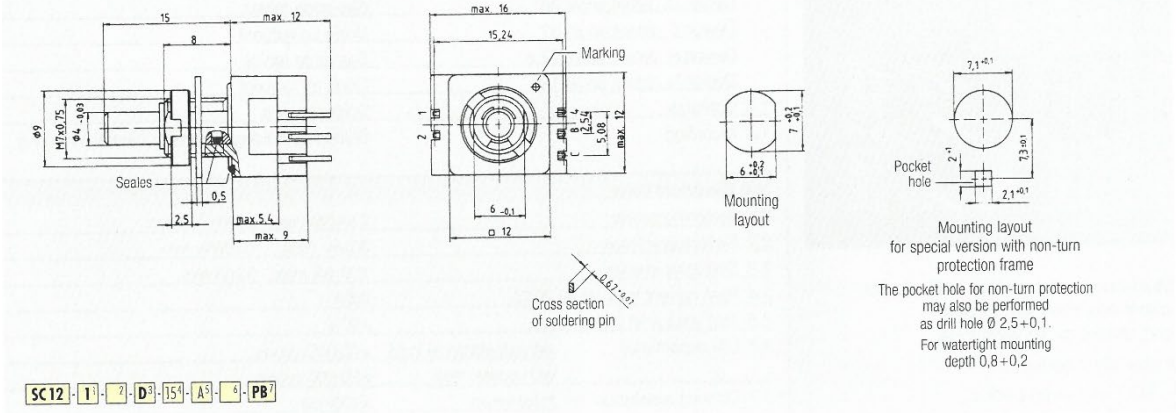
DIMENSIONS

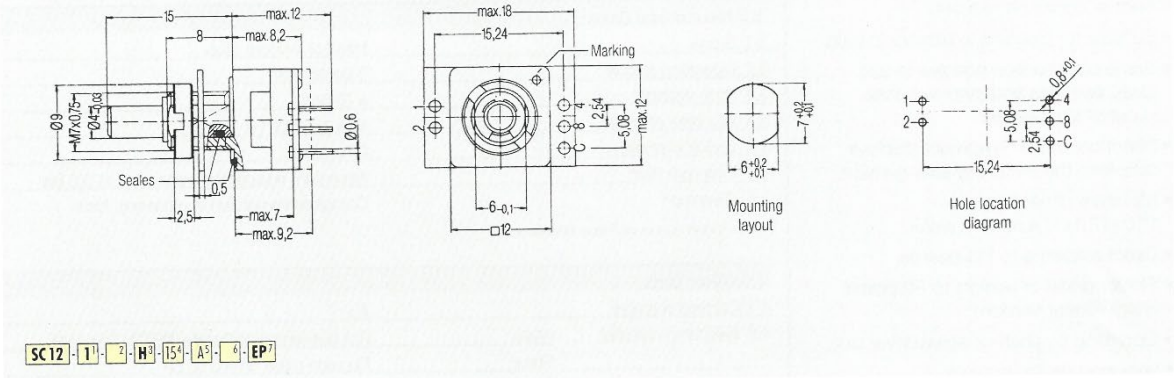
The bold-typed data in the yellow order blocks remain unchanged.
Normal-typed data matches the drawings and can be modified according to your wishes.
Blanks need to be completed according to the ordering details on the inside front cover.

Dimensional Drawings · Dimensions in mm



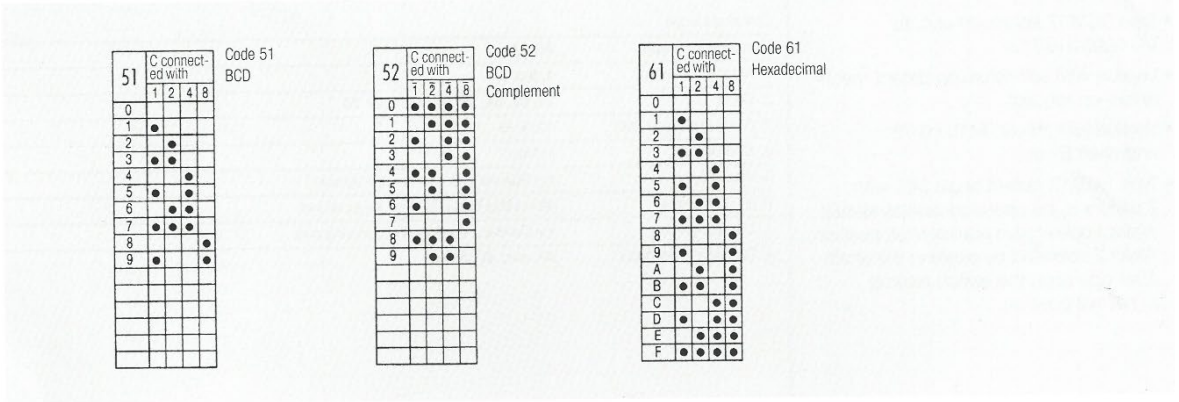
SC12 · 1 · 2 · D · 15 · A · 6 · PB

SC12 · Design D, detent angle 36°



SC12 · 1 · 2 · H · 15 · A · 6 · EP

SC12 · Design H, detent angle 22,5°



SC12 · Codes

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SAFETY AND WARNING NOTES

The components are solely for use by technically qualified, professional electronics experts who are familiar to the dangers and application risks associated with handling electrical mechanical components, systems and subsystems. User assumes all responsibility and liability for proper and safe handling and use and agrees with the restrictions and disclaimer at the end of this document.

DISCLAIMER

The information contained in this document is for general guidance only. The user is responsible for determining the suitability of the technical information referred herein for his application. On delivery of the component, EBE is only obliged to implement those properties set out and agreed upon in this document. Further properties are not included. No guarantee is given. The component has been designed for installation in our customer's products. Manufacturer of the resulting product and consequent liability according to the Product Liability Act lies with the customer. Warranty is limited to below mentioned extent.

The component is not intended for installation in end products for medical, life-saving, or safety-related applications. The use of the component is also not permitted and expressly prohibited in vehicles of any kind (including trailers and watercraft), as a component in aerospace products (including radio transmitter for aerospace purposes), or in offshore structures.

User assumes all responsibility and liability to determine whether the component is subject to any applicable international, federal, state, or local laws and regulations related to user's handling and use of the component and, if applicable, user assumes all responsibility and liability for compliance in all respects with such laws and regulations.

Disclaimer for improper use

The manufacturer accepts no liability for damage resulting from improper, inappropriate, or non-compliant use of the component. Any liability for direct or indirect damage, consequential damage or loss resulting from improper use is excluded. The Customer (user) is obliged to use the component exclusively in accordance with the instructions and information given in this document.

The limitation of liability described above does not apply in the case of mandatory statutory liability such as under the German Product Liability Act (Produkthaftungsgesetz) or in the case that a guarantee is given or in the case of willful deceit or fraudulent misrepresentation or with regard to claims for an injury of the life or limb or health or in the case of intentional or grossly negligent breach of fundamental contractual duties (“wesentliche Vertragspflichten”).

REVISION

REVISION	DATE	DESCRIPTION
1.0	16.07.2026	Initial Data Sheet Short Version

EBE Elektro-Bau-Elemente GmbH
Sielminger Straße 63
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