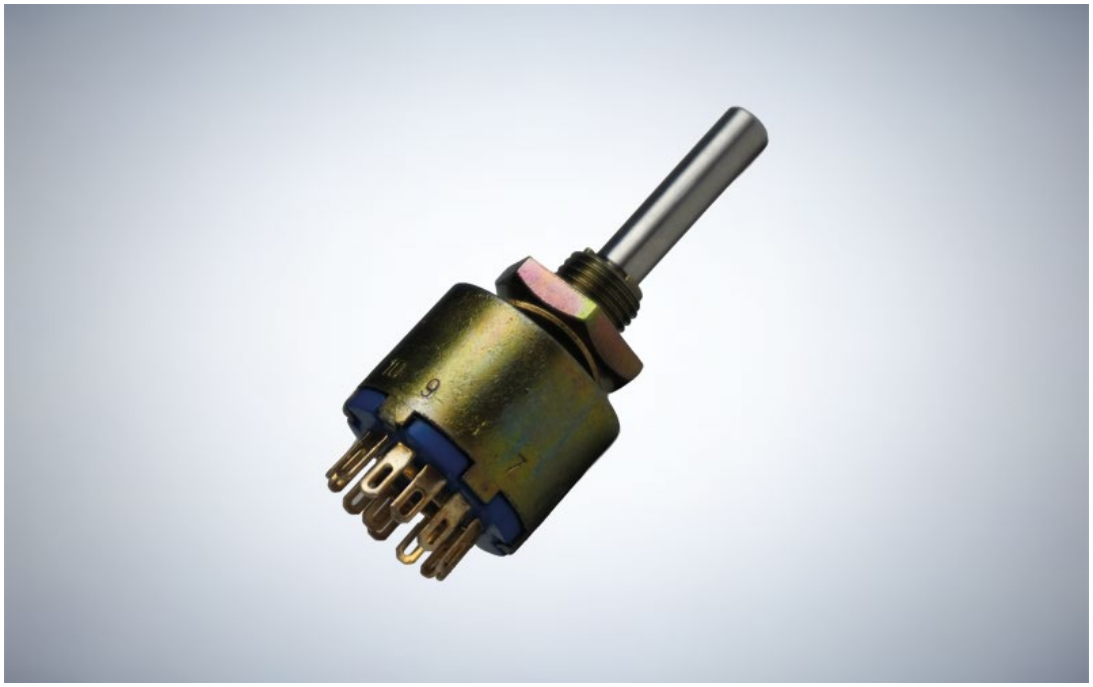
SB16 – HMI-Switches



DESCRIPTION

Miniature switch for free wiring or direct soldering.

- 17 mm diameter.
- Special design available for „dry circuits”.
- Possibility for dust-proof and flux-proof. SBI 16
- Version with additional impulse contact, e.g. for testing or paging functions.

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TECHNICAL DATA

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

NUMBER OF WAFERS MAX.	1 wafer
SWITCHING COMBINATIONS PER WAFER DESIGN E, DETEND ANGLE 30°C	1x12 to 1x2; 2x6 to 2x2 3x4 to 3x2; 4x3 to 4x2; 6x2
CONTACTS	Soldering lugs or pins
MOUNTING	Central mounting
SWITCHING MODE	Shorting or non-shorting
STOPS	Fixed or without stop
OPERATING TORQUE ACC. TO DESIGN	3 to 20 Ncm
DUST PROTECTION	Sealed wafer
WATERPROOFING DEPENDS ON DESIGN	watertight against front panel
CONTACT MATERIAL	Ag; special design Au over Ni barrier layer
INSULATING MATERIAL (WAFER)	Diallylphthalate, DAP; Code DI
INSULATING MATERIAL (ROTOR)	Polyacetal, POM
SOLDERING TIME AND TEMP.	5 s at 260°C

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

	Ag-version	**Au-version**
SWITCHING POWER MAX.	10 VA/W	5VA/W
SWITCHING CURRENT MAX.	350mA	100mA
CONTACT RESISTANCE INITIAL VALUE	≤20 mΩ	≤20 mΩ
INSULATION RESISTANCE	$\geq 10^{11}$ Ω	$\geq 10^{11}$ Ω

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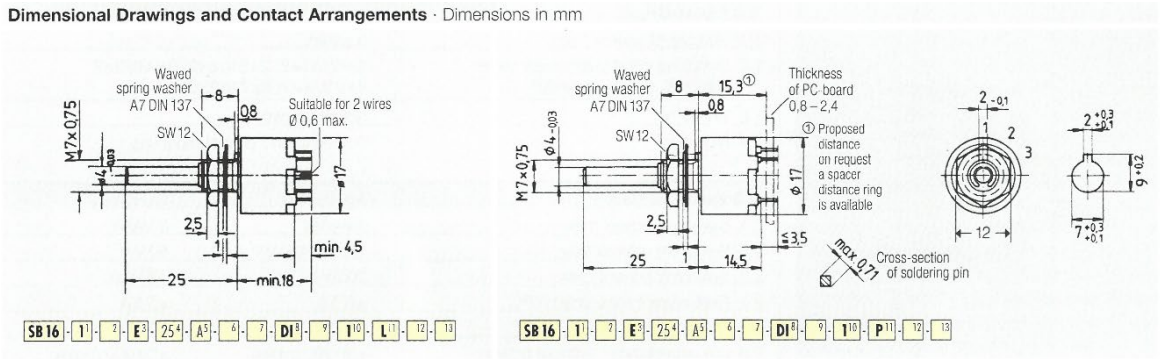
DIMENSIONS

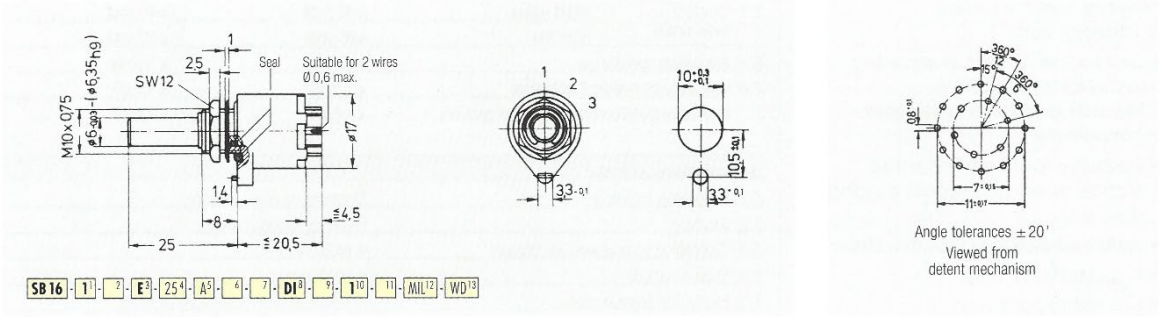
The bold-typed data in the yellow order blocks remain unchanged.
Normal-typed data matches the drawings and can be modified according to your wishes.
Blanks need to be completed according to the ordering details on the inside front cover.

Dimensional Drawings and Contact Arrangements · Dimensions in mm



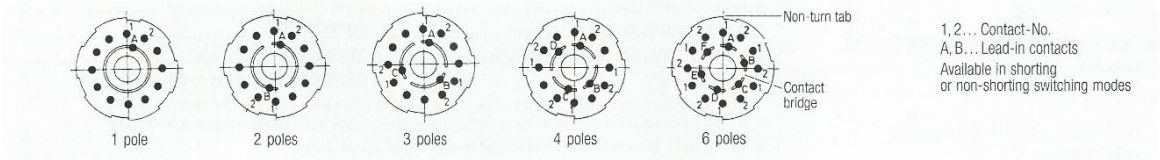
SB 16 · Standard version with soldering lugs

SB 16 Standard version with soldering pins

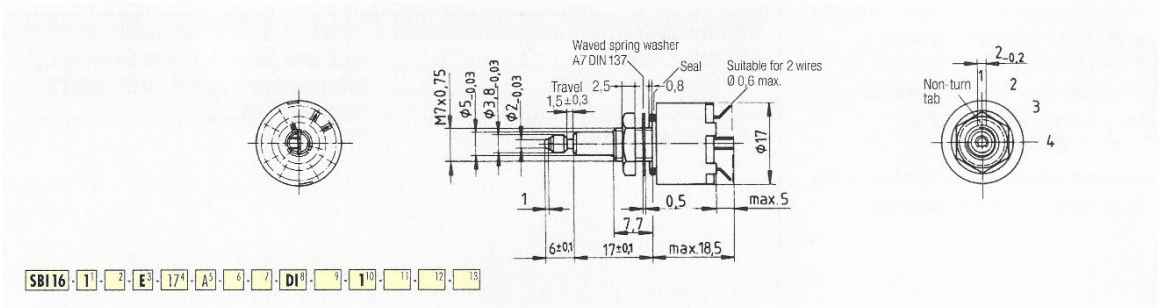


SB 16 · MIL-version, shaft design A

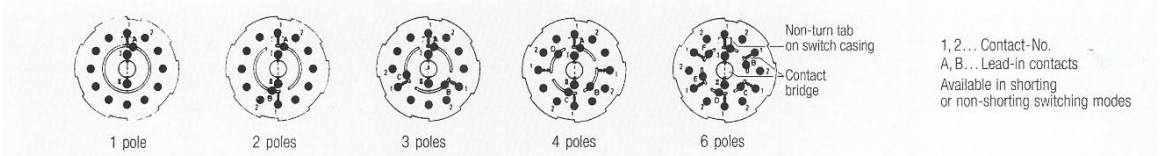
Contact arrangement for printed circuits



SB 16 · Contact arrangements as viewed from detent mechanism



SBI 16 · Step switch with impulse contact



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SAFETY AND WARNING NOTES

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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.

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REVISION

REVISION	DATE	DESCRIPTION
1.0	29.07.2026	Initial Data Sheet Short Version

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