SB20 – HMI-Switches

DESCRIPTION

Switch for direct soldering to PC board.

- Switch height incl. detent mechanism is only 9,2 mm with diameter 20 mm.
- Horizontal mounting possible with additional PC board.
- Hollow-shaft versions:
- Type SB 20 S
- Type SB 20 AD
- Optionally with or without stops. Snap-in stops available.
- Low price.
- Available on request with a higher operating torque.

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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 pins
MOUNTING	Soldering
SWITCHING MODE	Shorting or non-shorting
STOPS	Fixed or without stop
OPERATING TORQUE	Typically 2.5 Ncm
HOLLOW SHAFT	Not for type FA
DUST PROTECTION	Sealed wafer
CONTACT MATERIAL	Ag; special design Au over Ni barrier layer
INSULATING MATERIAL (WAFER)	Polyamide, PA; Code P0
INSULATING MATERIAL (ROTOR)	Polyacetal, POM
SOLDERING TIME AND TEMP.	5 s at 260°C

ELECTRICAL DATA, TYPICAL VALUES

SWITCHING POWER MAX.	5 VA/W (Ag)	1 VA/W (Au)
SWITCHING CURRENT MAX.	130 mA (Ag)	20 mA (Au)
REST CURRENT MAX. AT 20°C	≤ 3 A (Ag)	≤ 1 A (Au)

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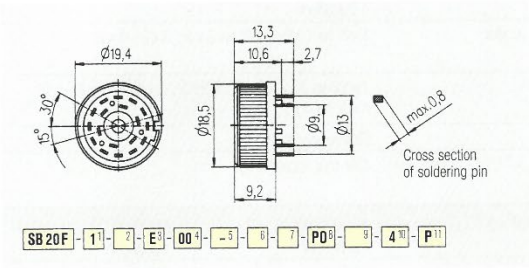
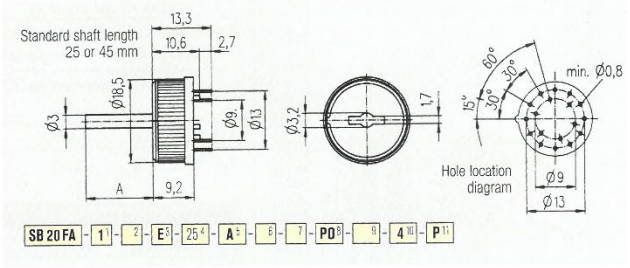
DIMENSIONS

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.

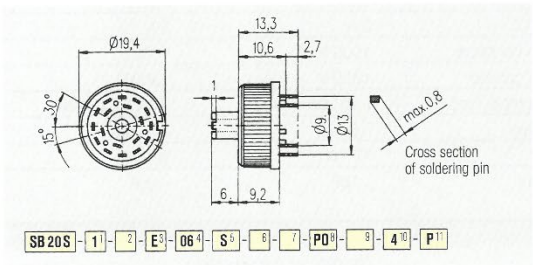
Dimensional Drawings · Dimensions in mm



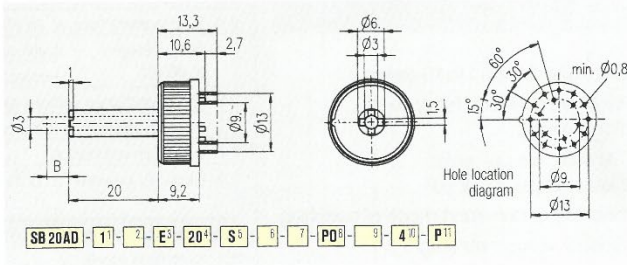
SB 20 F



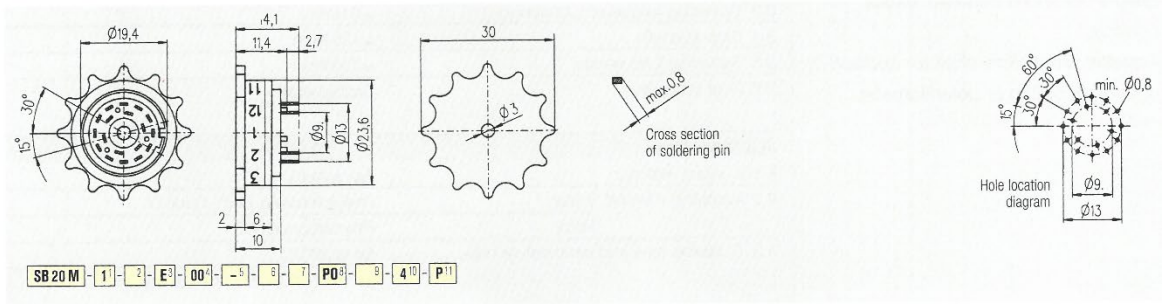
SB 20 FA



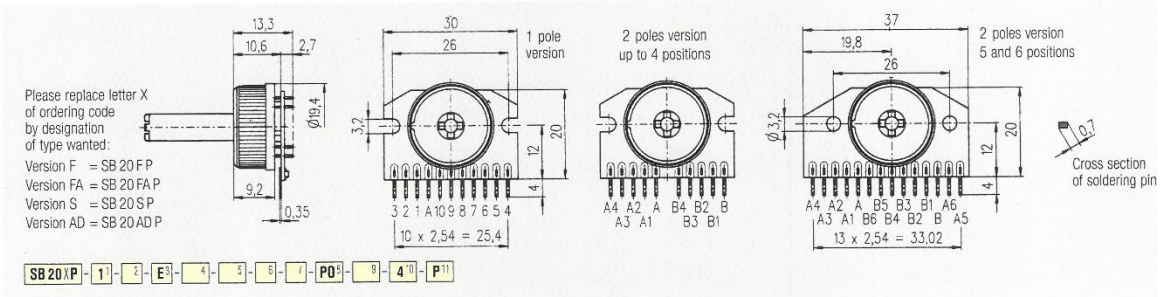
SB 20 S



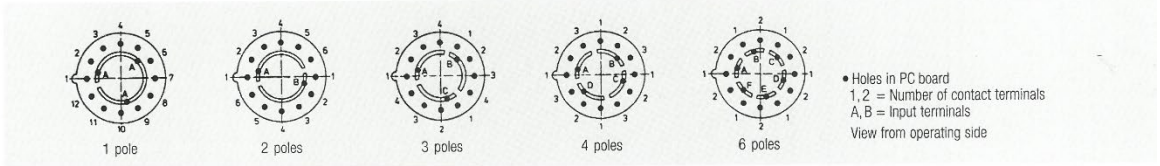
SB 20 AD



SB 20 M



SB20 with PC board



SB 20 · Contact arrangements as viewed from detent mechanism

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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	29.06.2026	Initial Data Sheet Short Version

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