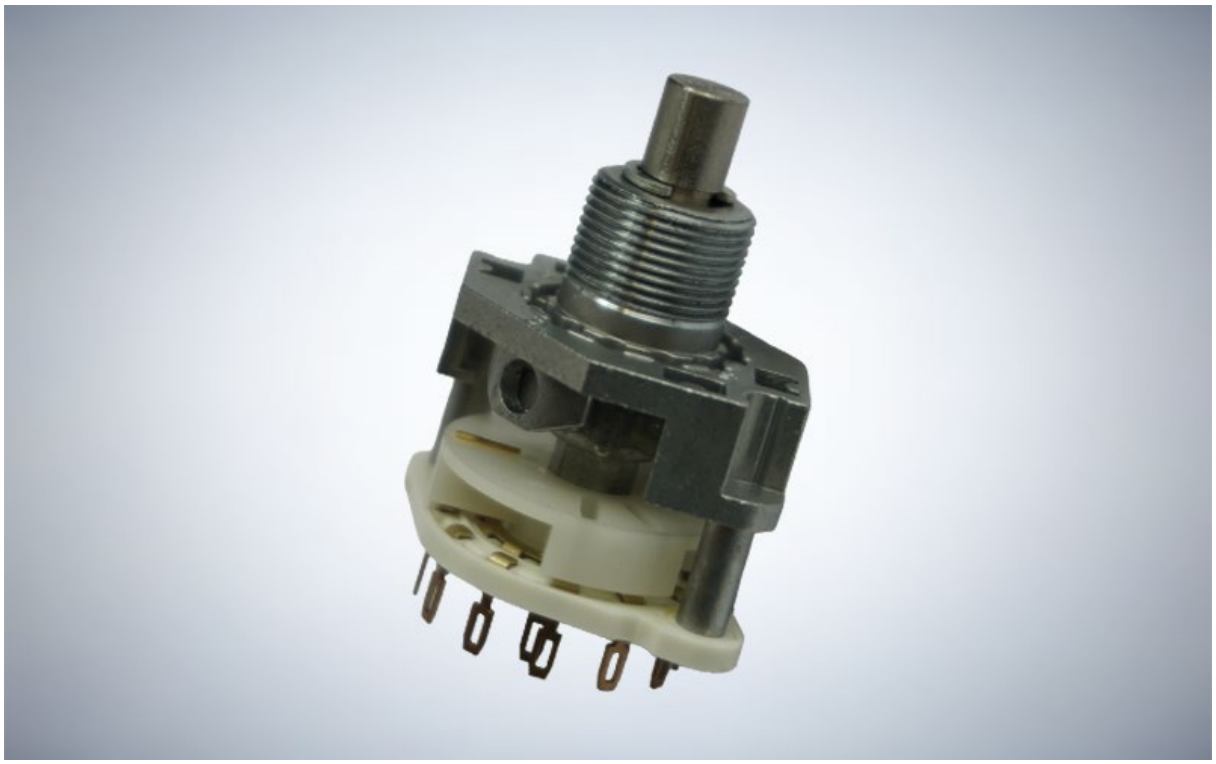
# SB30 – HMI-Switches



## DESCRIPTION

**Switch for conventional wiring and direct soldering to printed circuits**

- Detent angle 30° or 15° with 12 or 24 switching positions.
- Mounting dimensions 22 × 34 mm.
- Exact positioning by means of special detent mechanism.
- Screwed if more than 3 wafers.



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# TECHNICAL DATA

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

| | |
|---|---|
| **NUMBER OF WAFERS MAX.** | 4 wafers in 4-pole design |
| **SWITCHING COMBINATIONS PER WAFER** | -- |
| **DESIGN B, DETENT ANGLE 60°** | 1x6 to 1x2; |
| **NON-SHORTING** | 2x3 to 2x2; 3x2 |
| **DESIGN E, DETEND ANGLE 30°C, STANDARD** | 1x12 to 1x2; 2x6 to 2x2; |
| **NON-SHORTING** | 3x4 to 3x2; 4x4 to 4x2 |
| **DESIGN P, DETENT ANGLE 15°** | 1x24 to 1x2; 2x12 to 2x2; |
| **SHORTING** | 3x8 to 3x2; 4x6 to 4x2 |
| **CONTACTS** | Soldering lugs or pins |
| **MOUNTING** | Central mounting |
| **SWITCHING MODE** | Shorting: detent angle 15°;<br>Non-shorting: fixed angle 30° and 60° |
| **STOPS** | Fixed or without stop |
| **OPERATING TORQUE** | ≥ 3 Ncm |
| **CONTACT MATERIAL** | Ag; Au as special design |
| **INSULATING MATERIAL (WAFER)** | Diallylphthalate, DAP; Code DI |
| **INSULATING MATERIAL (ROTOR)** | Polyacetal, POM |
| **SOLDERING TIME AND TEMP.** | 5s at 260°C |

## ELECTRICAL DATA, TYPICAL VALUES

| | |
|---|---|
| **SWITCHING POWER MAX.** | 6 VA/W |
| **SWITCHING CURRENT MAX.** | 500 mA |



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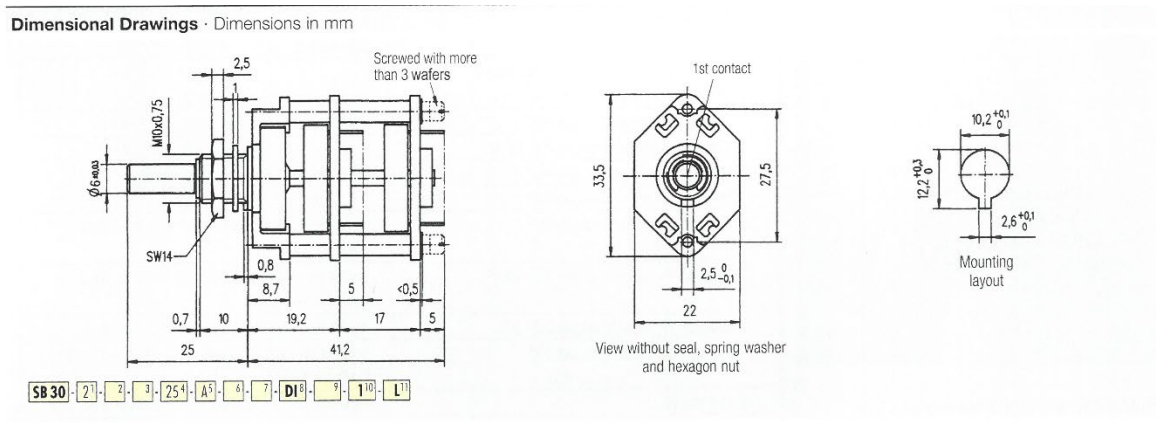
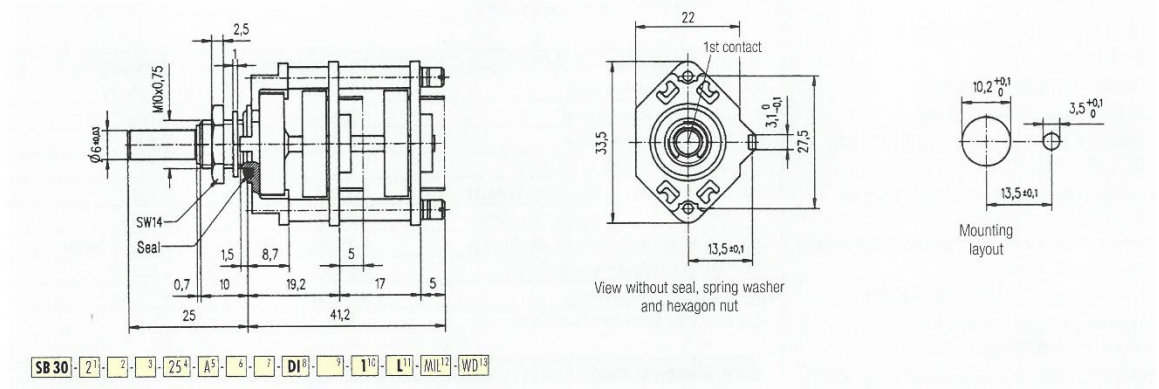
# DIMENSIONS

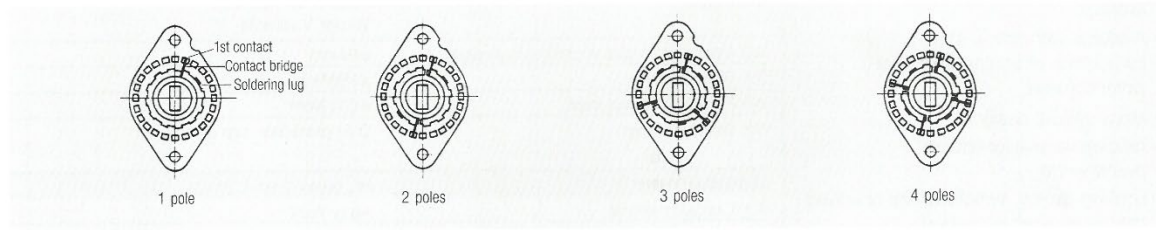
**The bold-typed data in the yellow order blocks remain unchanged.**
Normal-typed data matches the drawings and can be modified according to your wishes.
Blanks need to be completed according to the ordering details on the inside front cover.



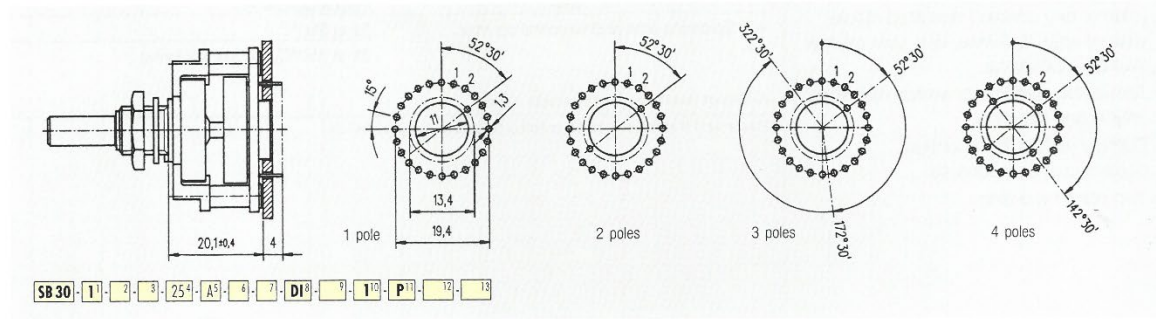

SB 30 · Standard version




SB 30 · MIL-version




SB 30 · Contact surfaces viewed from detent mechanism. Contact bridges in left hand stop position




SB 30 · Version for PC mounting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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.

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## REVISION

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| 1.0 | 29.07.2026 | Initial Data Sheet Short Version |



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