BS/EBS – HMI-Switches

DESCRIPTION

Rotary switch for conventional wiring or for direct soldering to printed circuits (EBS)

- Multi-wafer switch for conventional wiring.
- Up to 4 circuits per wafer.
- Flexible due to many different detent angles: 15°, 22.5°, 25.71°, 30°, 36°, 45°, 51.43°, 60° or 72°.
- Lever detent mechanism for angles 72°, 60°, 51.43° and 45°, other angles with ball detent mechanism with plastic housing.
  On request with lever mechanism.
- Shorting or non-shorting mode of switching.
- Stops adjustable retrospectively (Version V).
- Version watertight against front panel available.
- Available with hollow shaft for addition of another switch or potentiometer.

EBE Elektro-Bau-Elemente GmbH
7Sielminger Straße 63
70771 Leinfelden-Echterdingen

Many special designs:

- Spring return version (momentary contact) operated clockwise or anti-clockwise, also over several switching positions.
- Two point mounting.

TECHNICAL DATA

CONSTRUCTION AND MECHANICAL DATA , TYPICAL VALUES

NUMBER OF WAFERS MAX.	10 wafers
SWITCHING COMBINATIONS PER WAFER	
DESIGN A, DETENT ANGLE 72°	1x5 to 1x2; 2x3 to 2x2
DESIGN B , DETENT ANGLE 60°	1x6 to 1x2; 2x3 to 2x2; 3x2; 4x2
DESIGN C, DETENT ANGLE 51°25.8'	1x7 to 1x2; 2x4 to 2x2; 3x2; 4x2
DESIGN G, DETENT ANGLE 45°	1x8 to 1x2; 2x4 to 2x2; 4x2
DESIGN D, DETEND ANGLE 36°	1x10 to 1x2; 2x5 to 2x2
DESIGN E, DETENT ANGLE 30°	1x12 to 1x2; 2x6 to 2x2; 3x4 to 3x2; 4x3 to 4x2
DESIGN F, DETENT ANGLE 25°42,6'	1x14 to 1x2; 2x7 to 2x2; 3x4 to 3x2; 4x3 to 4x2
DESIGN H, DETENT ANGLE 22°30'	6 to 1x2; 2x8 to 2x2; 4x4 to 4x2
DESIGN P, DETENT ANGLE 15°	1x24 to 1x2; 2x11 to 2x2; 3x7 to 3x2; 3x5 to 4x2
CONTACTS	Soldering lugs, single-wafer switch also with pins
MOUNTING	Central mounting
STOPS	Fixed or without stop; Version V variable
DUST PROTECTION	Dust protection cap on request
CONTACT MATERIAL	Ag or AuNi
INSULATING MATERIAL WAFER	Diallylphthalate DAP Code DI
INSULATING MATERIAL ROTOR	Polycarbonate PC

ELECTRICAL DATA, TYPICAL VALUES

SWITCHING POWER MAX.	Ag: 40 VA/W; AuNi: 20 VA/W
SWITCHING CURRENT MAX.	Ag:1A; AuNi:0.5A
CONTACT RESISTANCE INITIAL VALUE	Ag <=8 mOhm; AuNi <=12 mOhm
INSULATION RESISTANCE	>=10^11 Ohm

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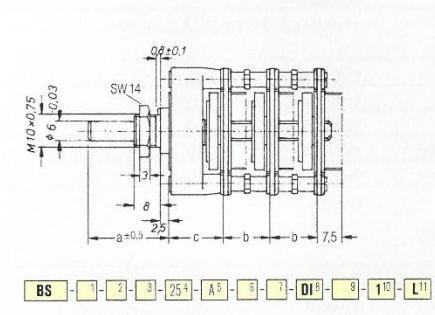
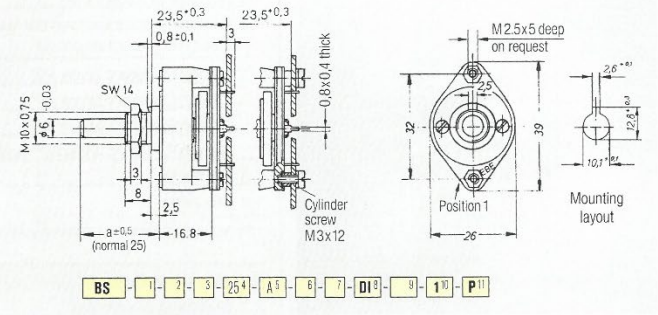
DIMENSIONS

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

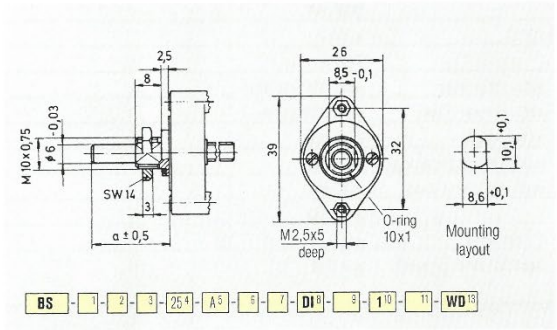
Dimensional Drawings · Dimensions in mm



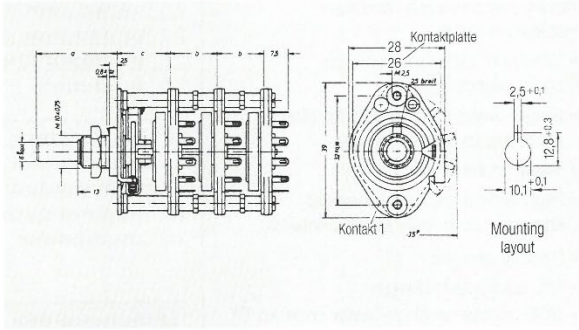
BS · Version with soldering lugs



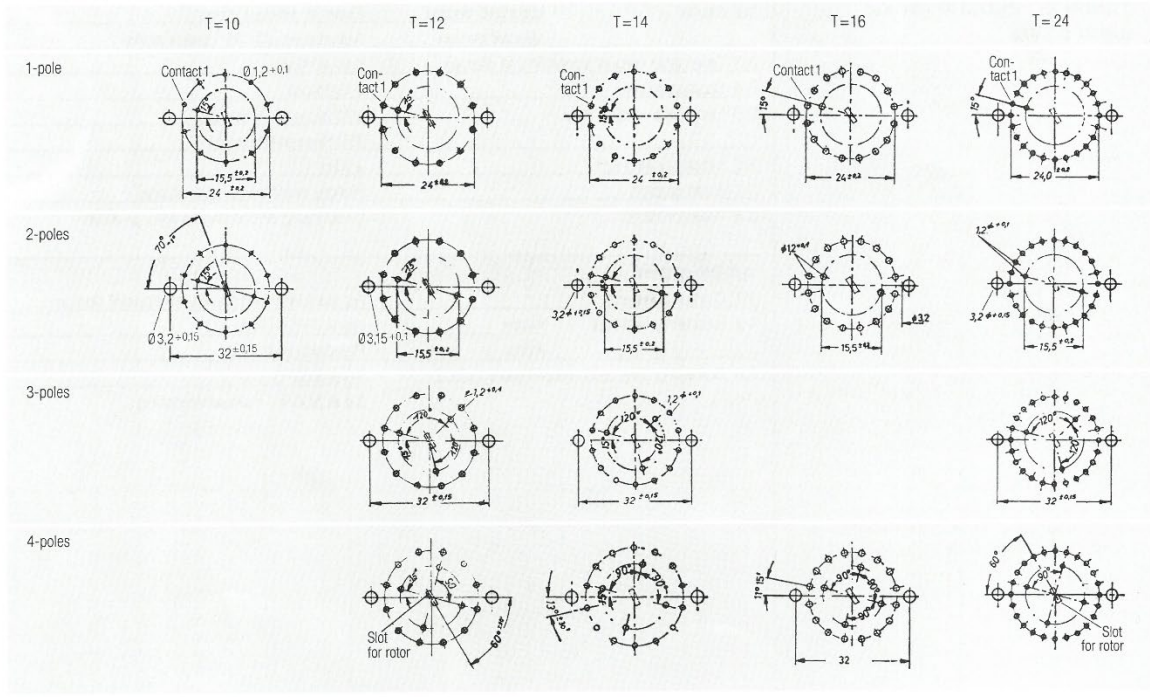
BS · PC board version



BS · Watertight version



BS · Lever detent mechanism



Hole location diagrams as viewed from the mounting side

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SAFETY AND WARNING NOTES

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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.

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REVISION

REVISION	DATE	DESCRIPTION
1.0	29.07.2026	Initial Data Sheet Short Version

EBE Elektro-Bau-Elemente GmbH
7Sielminger Straße 63
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