SB15 – HMI-Switches

DESCRIPTION

Miniature switch with 1 to 4 wafers

- Multi-wafer switch for conventional wiring.
- Single-wafer switch also for direct soldering to PCB or flexible printed circuits.
- tight against flux.
- 1 to 4 circuits per wafer. Detent angle 30° or 60°.
- Shorting (k) or non-shorting (u) mode of switching.
- Watertight against front panel.
- Higher fastening torque with stainless steel bushing.

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Special designs:

– Locking possibility for free selectable switch positions. The switch can only be brought into a locked switch position by pulling the axes.
– Shaft Ø 6 mm with bushing M10×0,75 or shaft Ø 6,35 mm with bushing 3/8” NEF or shaft Ø 3,17 mm with bushing 1/4” NF on request.
– Spring return version on request.
– Version in compliance with MIL 3786 and approved acc. VG 95318 standard.

TECHNICAL DATA

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

NUMBER OF WAFERS MAX.	4 wafers
SWITCHING COMBINATIONS PER WAFER (DESIGN B, 60°)	1x6 to 1x2; 2x3 to 2x2; 3x2; 4x2
SWITCHING COMBINATIONS PER WAFER (DESIGN E, 30°)	1x12 to 1x2; 2x6 to 2x2; 3x4 to 3x2; 4x3 to 4x2
CONTACTS	Soldering lugs, single-wafer switch also pins
MOUNTING * VERSIONS WITH STOP AND SHAFT DIAMETER 6 MM OR 6,35 MM HAVE ONLY 11 SWITCH POSITIONS MAX.	Central mounting
SWITCHING MODE	Shorting or non-shorting
STOPS	Fixed or without stop
OPERATING TORQUE ACC. TO DESIGN	Typically 3 to 15 Ncm
DUST PROTECTION	Sealed wafer
CONTACT MATERIAL	Ag; special design Au over Ni barrier layer
INSULATING MATERIAL (WAFER)	Diallylphthalate (DAP), Code DI
INSULATING MATERIAL (ROTOR)	Polyacetal (POM)

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

	Ag-version	**AuNi-version**
SWITCHING POWER MAX.	10 VA/W	5VA/W
SWITCHING CURRENT MAX.	300mA	100mA
REST CURRENT MAX. AT 20°C	≤1A	≤1A
CONTACT RESISTANCE INITIAL VALUE	≤40 mΩ	≤40 mΩ
INSULATION RESISTANCE	$\geq 10^{11}$ Ω	$\geq 10^{11}$ Ω

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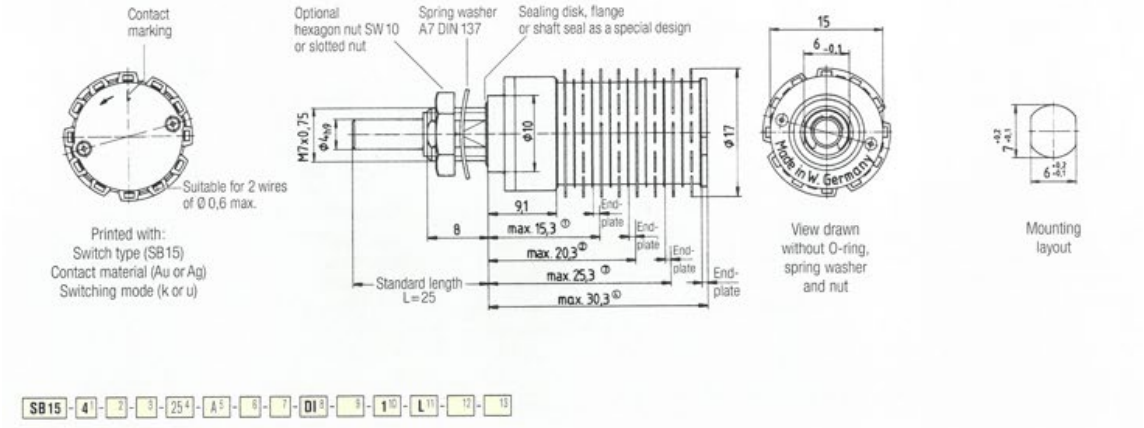
DIMENSIONS

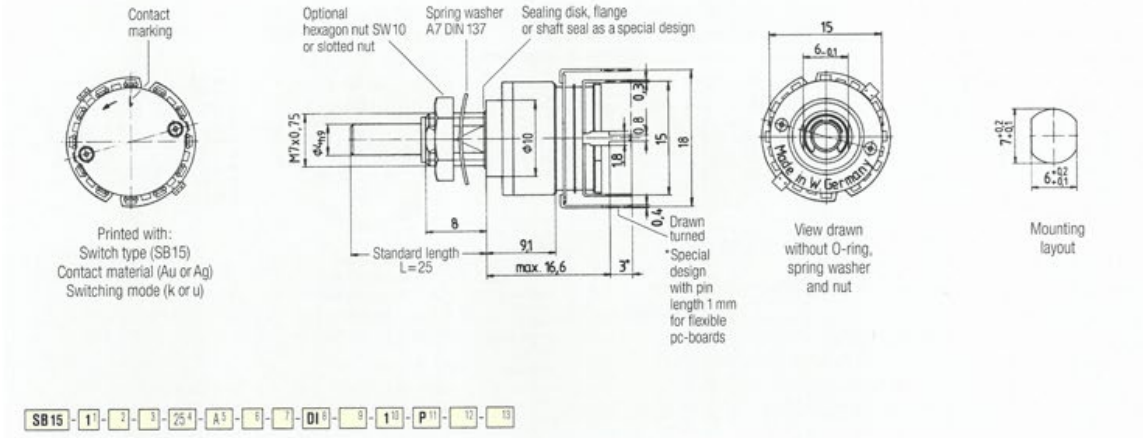
The bold-typed data in the yellow order blocks remain unchanged.
Normal-typed data matches the drawings and can be modified according to your wishes.
Blanks need to be completed according to the ordering details on the inside front cover.

Dimensional Drawings · Dimensions in mm



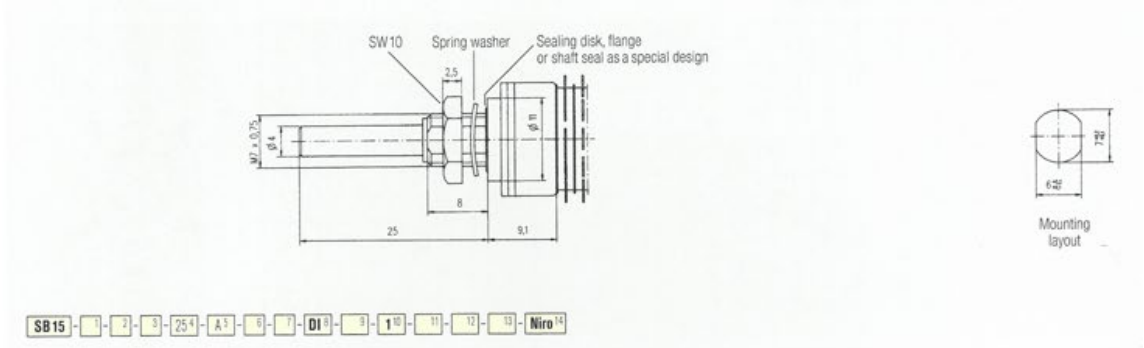
SB15 - 4 - [2] - [3] - 25 - A - [6] - [7] - DI - [9] - 1 - L - [12] - [13]

SB15 with soldering lugs and zinc pressure cast bushing



SB15 - 1 - [2] - [3] - 25 - A - [6] - [7] - DI - [9] - 1 - P - [12] - [13]

SB15 with soldering pins and zinc pressure cast bushing



SB15 - [1] - [2] - [3] - 25 - A - [6] - [7] - DI - [9] - 1 - [11] - [12] - [13] - Niro

SB15 with M 7x 0,75 stainless steel bushing and two flat sides

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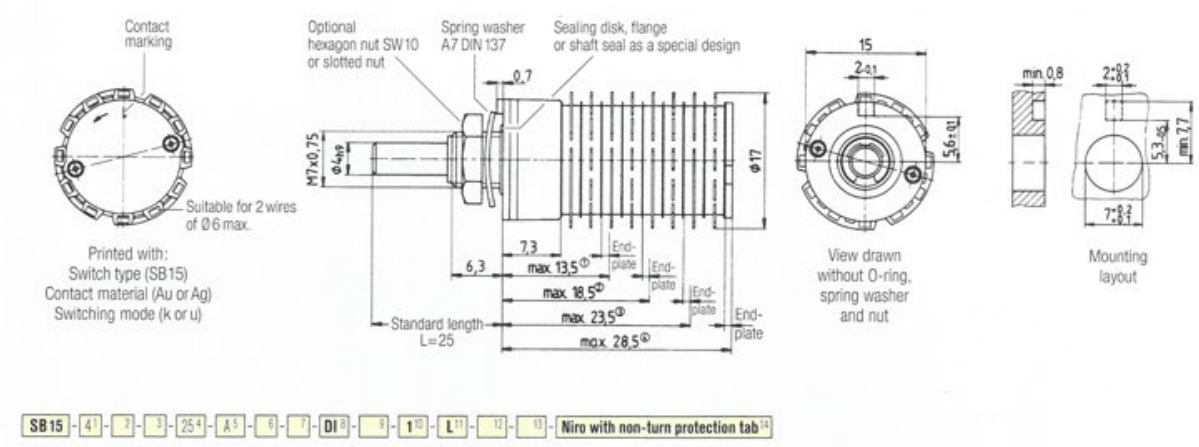
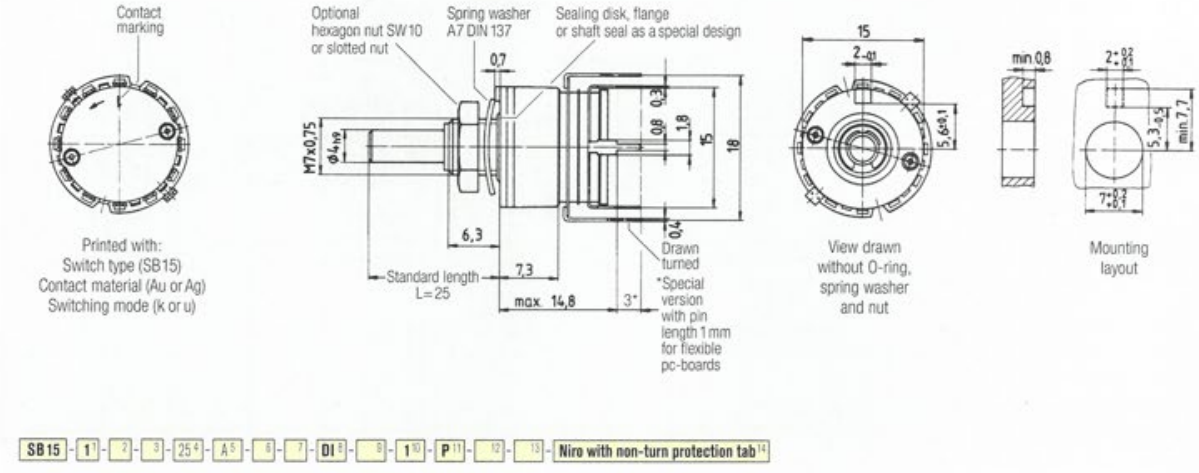
Dimensional Drawings · Dimensions in mm



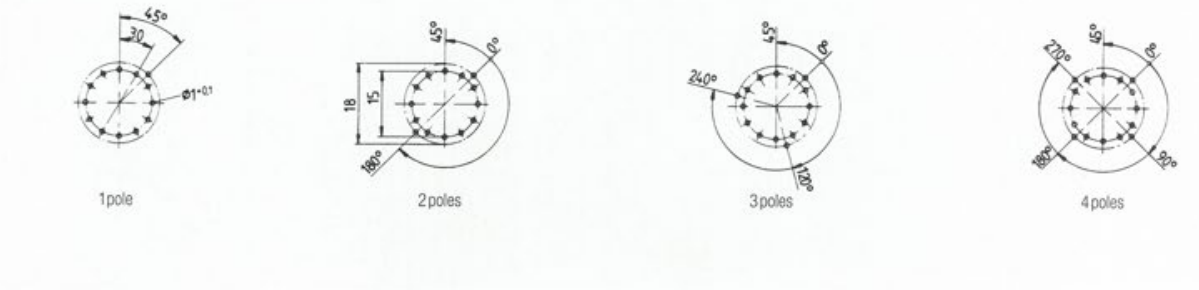
SB15 - 4[1] - [2] - [3] - 25[4] - A[5] - [6] - [7] - DI[8] - [9] - 1[10] - L[11] - [12] - [13] - Niro with non-turn protection tab[14]

SB15 with soldering lugs and stainless steel bushing and non-turn protection tab



SB15 - 1[1] - [2] - [3] - 25[4] - A[5] - [6] - [7] - DI[8] - [9] - 1[10] - P[11] - [12] - [13] - Niro with non-turn protection tab[14]

SB15 with soldering pins and stainless steel bushing



Hole location diagrams viewed from detent mechanism

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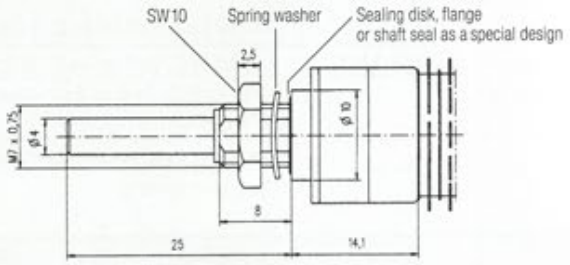
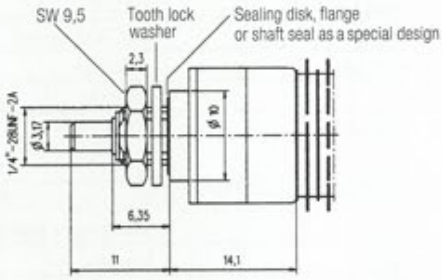
Dimensional Drawings · Dimensions in mm



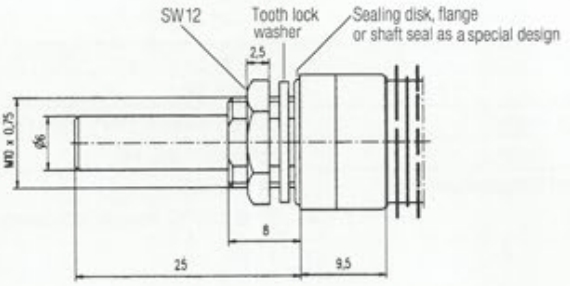
SBV15 - [1] - [2] - [3] - 25[4] - A[5] - [6] - [7] - DI[8] - [9] - 1[10] - [11] - [12] - [13] - Switching position with interlocking[14]

SBV15 with interlocking and thread M7x0,75 niro



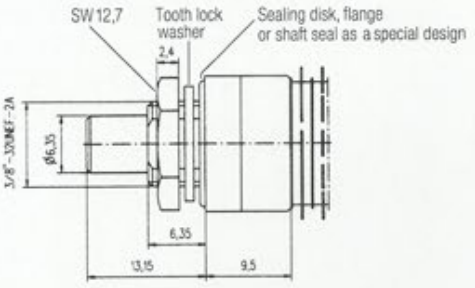
SBV15 - [1] - [2] - [3] - 11[4] - A[5] - [6] - [7] - DI[8] - [9] - 1[10] - [11] - [12] - [13] - Thread 1/4" · Shaft 1/8" · Switching position with interlocking[14]

SBV15 with interlocking and thread ¼" niro



SB15 - [1] - [2] - [3] - 25[4] - A[5] - [6] - [7] - DI[8] - [9] - 1[10] - [11] - [12] - [13] - Thread M10, Shaft Ø 6 mm[14]

SB15 · Special version with thread M10x0,75 zinc pressure cast bushing



SB15 - [1] - [2] - [3] - 13[4] - A[5] - [6] - [7] - DI[8] - [9] - 1[10] - [11] - [12] - [13] - Thread 3/8" · Shaft 1/4"[14]

SB15 · Special version with 3/8" zinc pressure cast bushing

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SAFETY AND WARNING NOTES

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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

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REVISION

REVISION	DATE	DESCRIPTION
1.0	08.07.2026	Initial Data Sheet Short Version

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