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ROTARY SWITCH COMMUTATORI ROTATIVI

SB15

Commutatore rotativo miniaturizzato



Miniature switch
with 1 to 4 wafers according to DIN 41634,
IEC -draft and VG 95318, part 5.

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

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 M 10x0,75
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.

1.0 Construction

1.1 Number of wafers max.	4 wafers
1.2 Switching combinations per wafer	—
Design B, detent angle 60°	1x6 to 1x2; 2x3 to 2x2; 3x2; 4x2
Design E, detent angle 30°	1x12* to 1x2; 2x6 to 2x2 3x4 to 3x2; 4x3 to 4x2

1.3 Contacts	Soldering lugs, single-wafer switch also pins
1.4 Mounting	Central mounting

* Versions with stop and shaft diameter 6 mm or 6,35 mm
have only 11 switch positions max.

2.0 Electrical data

	Ag-version	Au-version
2.1 Switching power max.	10 VA/W	5 VA/W
2.2 Switching voltage max.	125 V~/150 V—	60 VV
2.3 Switching current max.	300 mA	100 mA
2.4 Rest current max. at 20 °C	≤ 1 A	≤ 1 A
2.5 Test voltage at 50 Hz	1000 V	1000 V
2.6 Life expectancy	without power with power max.	≥ 50 000 cycles ≥ 25 000 cycles ≥ 30 000 cycles ≥ 20 000 cycles
2.7 Contact resistance	initial value after life expectancy	≤ 40 mΩ ≤ 80 mΩ ≤ 40 mΩ ≤ 80 mΩ
2.8 Insulation resistance	≥ 10 ¹¹ Ω	≥ 10 ¹¹ Ω
2.9 Capacity between	2 contacts contact and ground	≤ 1 pF ≤ 2,5 pF ≤ 1 pF ≤ 2,5 pF

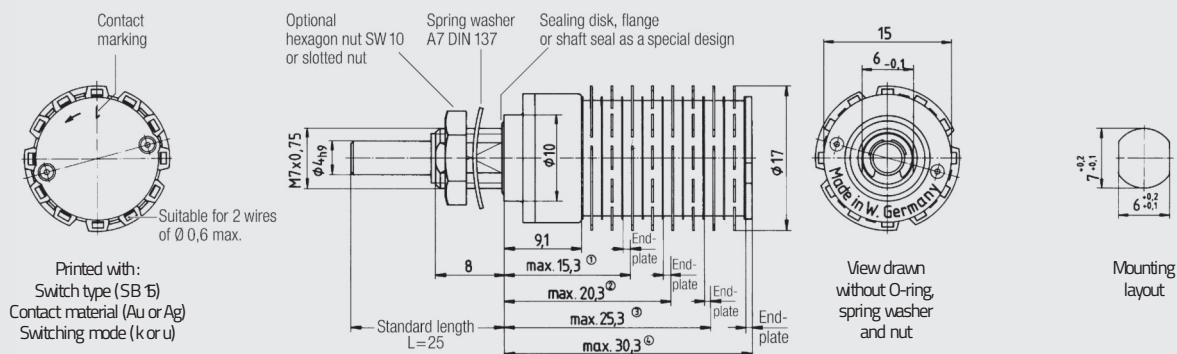
3.0 Mechanical Data

3.1 Switching mode	Shorting or non-shortening
3.2 Stops	Fixed or without stop
3.3 Operating torque acc. to design	3 to 15 Ncm
3.4 Stop strength	≥ 100 Ncm ≥ 70 Ncm for version with interlocking
3.5 Fastening torque max.	Standard 70 Ncm; MIL-version 150 Ncm
3.6 Vibratory strength	10 g, 10 – 2000 Hz
3.7 Shock strength	50 g, 11 ms
3.8 Dust protection	Sealed wafer
3.9 Waterproofing	Watertight against front panel up to 0,2 bar as special design

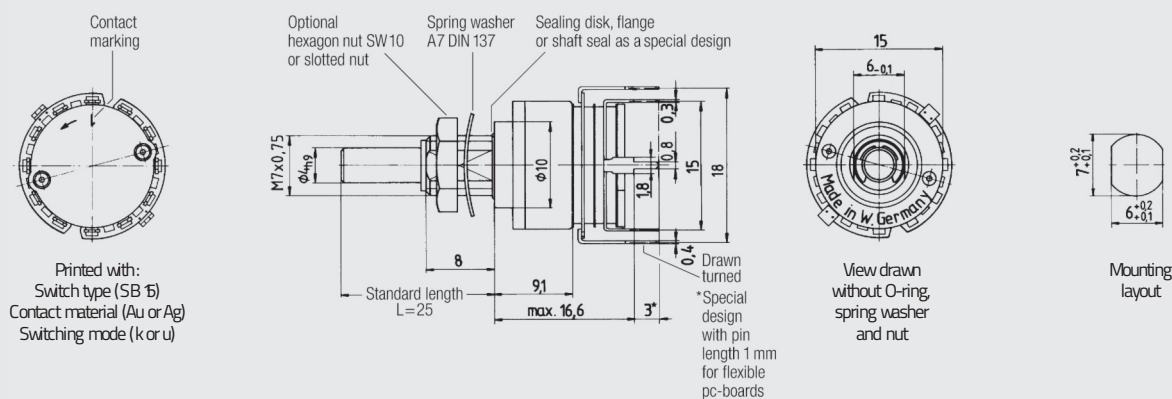
4.0 Other Data

4.1 Contact material	Ag; special design Au over Ni barrier layer
4.2 Insulation material	Wafer Rotor
	Diallylphthalate, DAP; C Code DI Polyacetal, POM
4.3 Soldering time and temperature max.	5 s at 260 °C 3 s at 350 °C, manual soldering

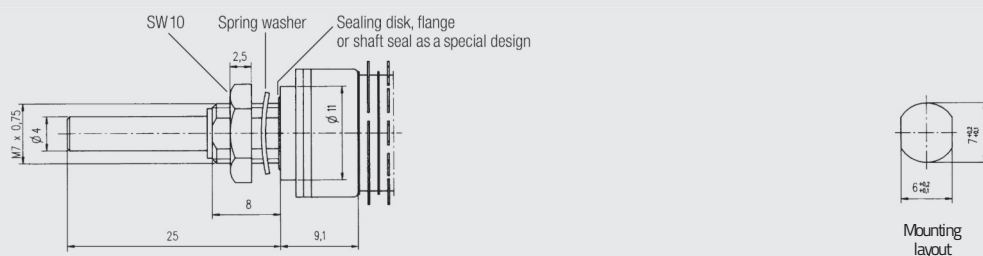
Dimensional Drawings · Dimensions in mm



SB15 with soldering lugs and zinc pressure cast bushing

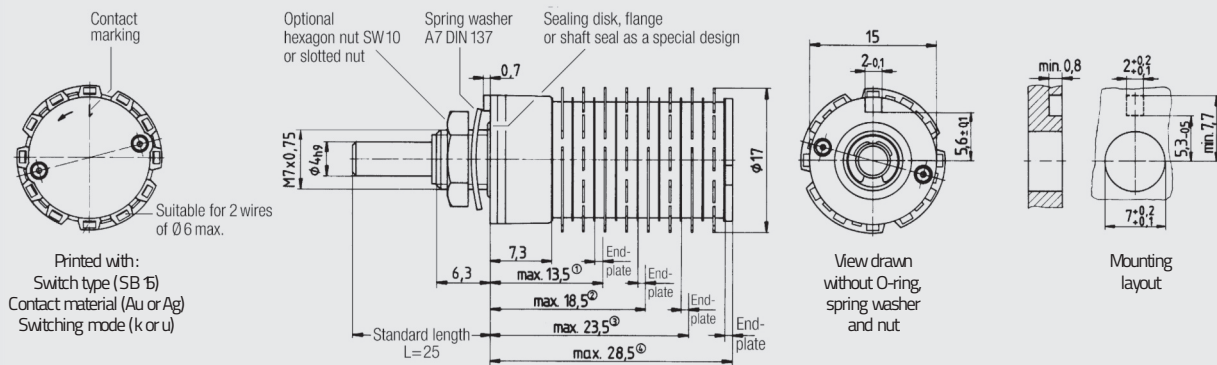


SB15 with soldering pins and zinc pressure cast bushing

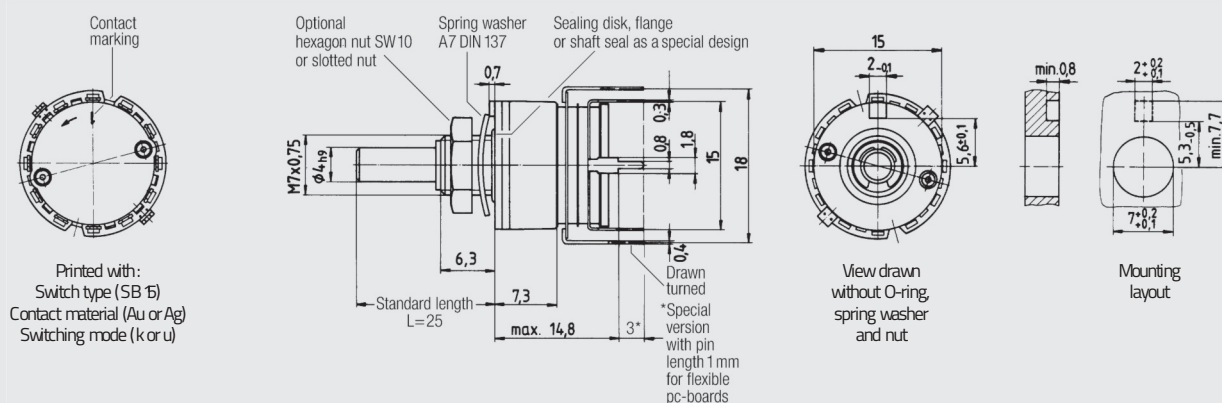


SB15 with M7x0,75 stainless steel bushing and two flat sides

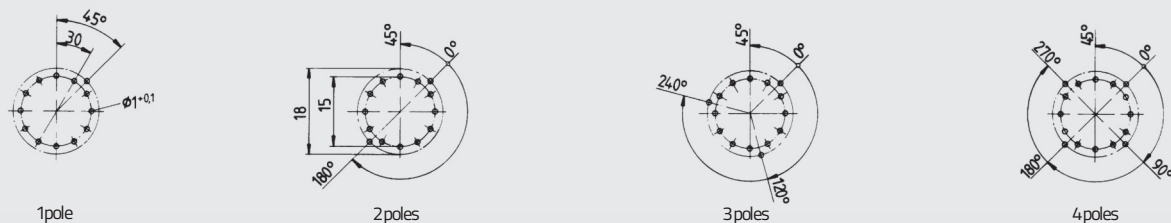
Dimensional Drawings · Dimensions in mm



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

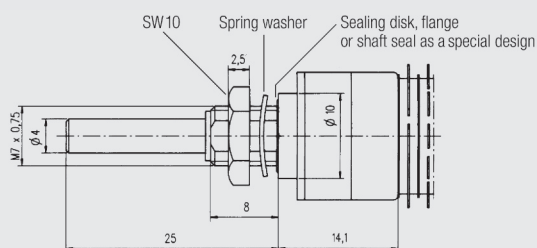


SB15 with soldering pins and stainless steel bushing



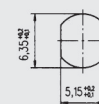
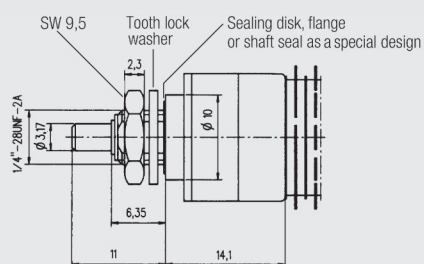
Hole location diagrams viewed from detent mechanism

Dimensional Drawings · Dimensions in mm



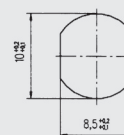
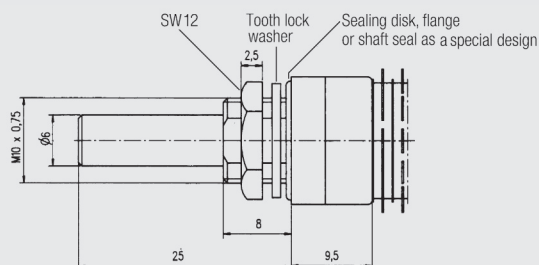
Mounting layout

SBV15 with interlocking and thread M7x0,75 niro



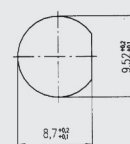
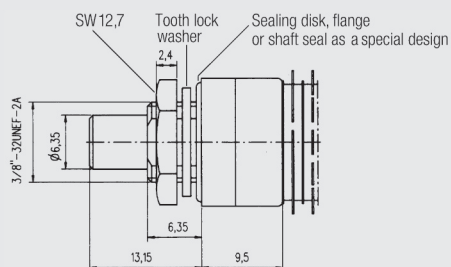
Mounting layout

SBV15 with interlocking and thread 1/4" niro



Mounting layout

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



Mounting layout

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

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