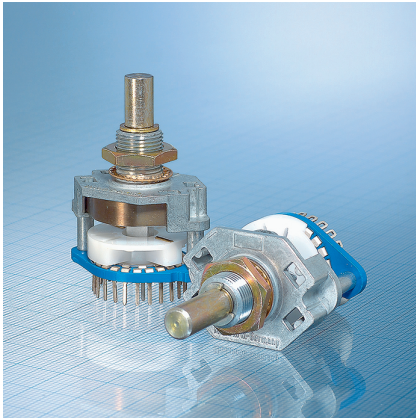


Rotary Switch SB30



Switch for conventional wiring and direct soldering to printed circuits.

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

1.0 Construction

1.1 Number of wafers max.	4 wafers in 4-pole design
1.2 Switching combination per wafer	—
Design B, detent angle 60° non-shorting	1x6 to 1x2; 2x3 to 2x2; 3x2
Design E, detent angle 30°, standard non-shorting	1x12 to 1x2; 2x6 to 2x2 3x4 to 3x2; 4x4 to 4x2
Design P, detent angle 15° shorting	1x24 to 1x2; 2x12 to 2x2 3x8 to 3x2; 4x6 to 4x2
1.3 Contacts	Soldering lugs or pins
1.4 Mounting	Central mounting

2.0 Electrical Data

2.1 Switching power max.	6 VA/W
2.2 Switching voltage max.	60 V≈
2.3 Switching current max.	500 mA
2.4 Rest current max. at θ_u 20°C	≤3 A
2.5 Test voltage at 50 Hz	500 V
2.6 Life expectancy	without power ≥20 000 cycles with power ≥10 000 cycles
2.7 Contact resistance	initial value ≤15 mΩ Contact resistance without electrical load ≤20 mΩ after life expectancy with electrical load ≤25 mΩ
2.8 Insulation resistance	≥10 ¹¹ Ω
2.9 Capacity between 2 contacts	≤0,8 pF
Capacity between contact and ground	≤0,8 pF

3.0 Mechanical Data

3.1 Switching mode	shorting	Detent angle 15°
	non-shorting*	Detent angle 30° and 60°
3.2 Stops		Fixed or without stop
3.3 Operating torque acc. to design		≥3 Ncm
3.4 Stop strength		≥150 Ncm
3.5 Fastening torque max.		150 Ncm
3.6 Vibratory strength		10 g, 10–500 Hz
3.7 Shock strength		50 g, 11 ms
3.8 Waterproofing		As special design with 30° detent angle

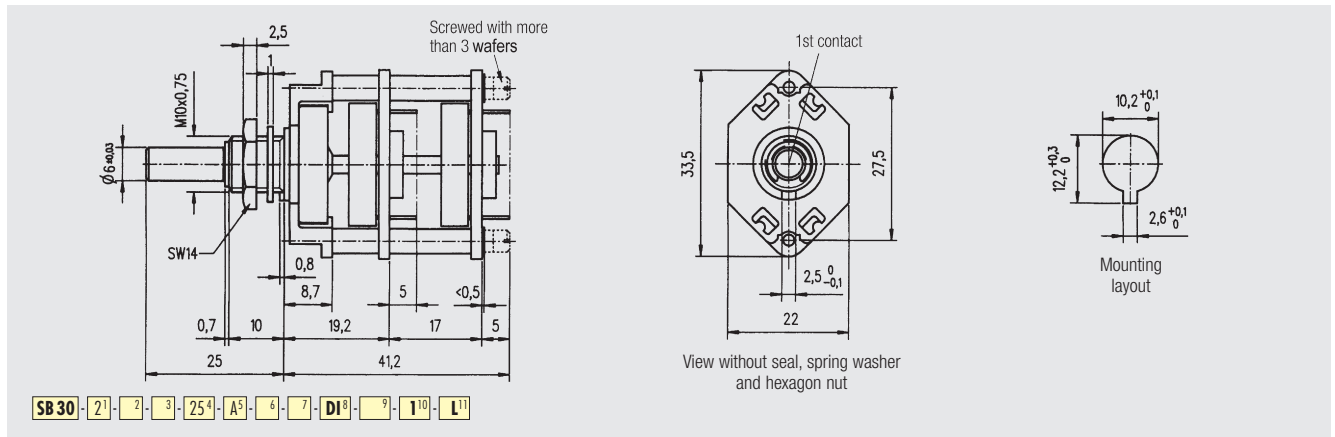
* Shorting by external connection

4.0 Other Data

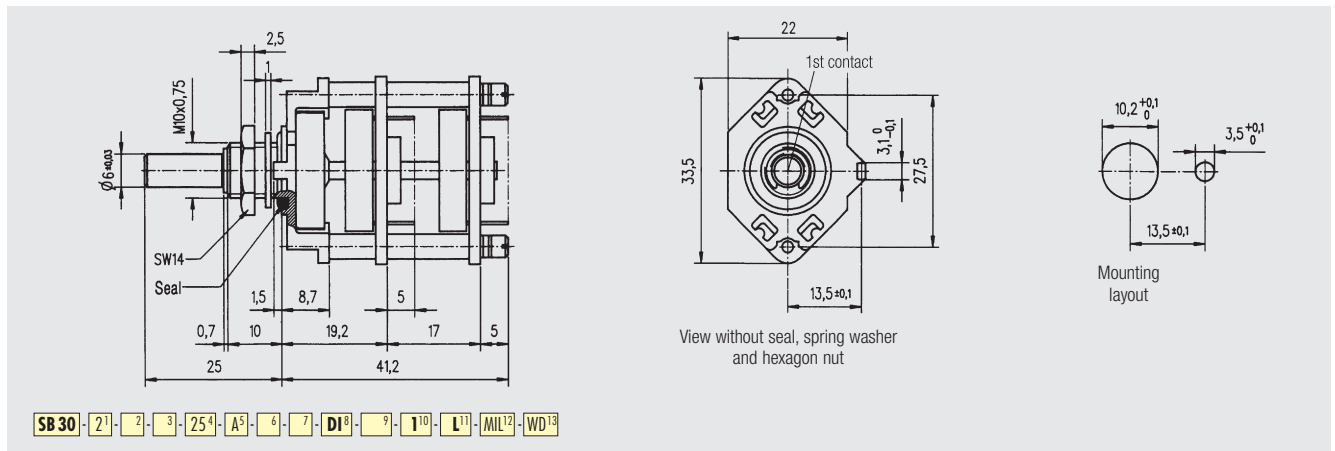
4.1 Contact material		Ag; Au as special design
4.2 Insulating material	Wafer	Diallylphthalate, DAP; Code DI
	Rotor	Polyacetal, POM
4.3 Soldering time and temperature max.		5 s at 260°C 3 s at 350°C, manual soldering

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 inside front cover.

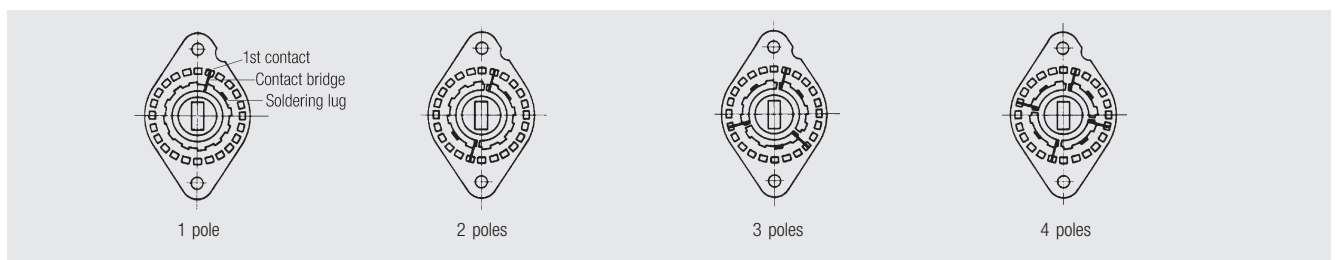
Dimensional Drawings · Dimensions in mm



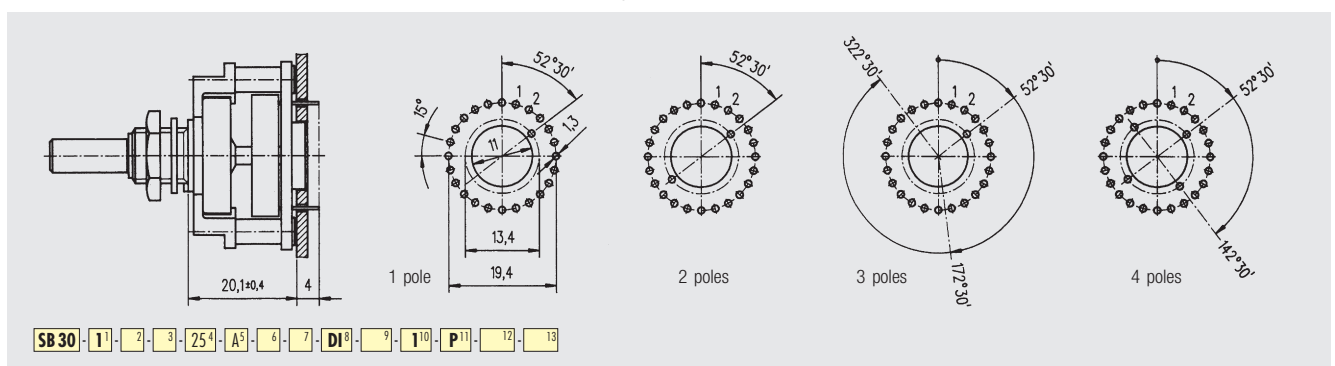
SB30 · Standard version



SB30 · MIL-version



SB30 · Contact surfaces viewed from detent mechanism. Contact bridges in left hand stop position



SB30 · Version for PC mounting