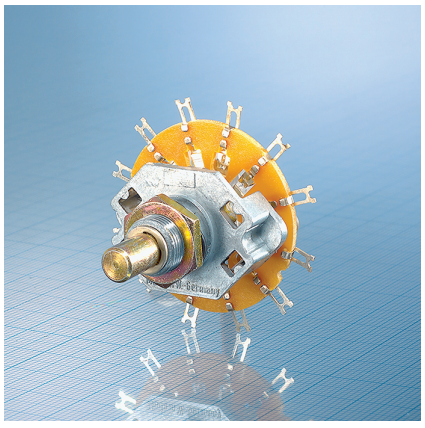
Rotary Switch SM30



Rotary switch for conventional wiring.

- Wafer made of laminated paper.
- Blade contacts ensuring resistance mechanical shock.
- Coding possible.
- Minimum installation depth.

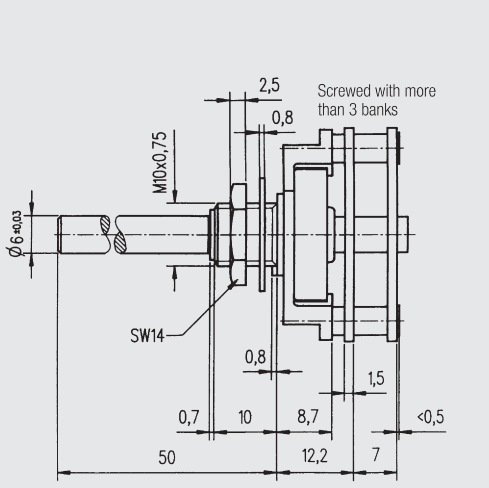
Special designs:
– MIL application design
– Hollow shaft available for dual operation.

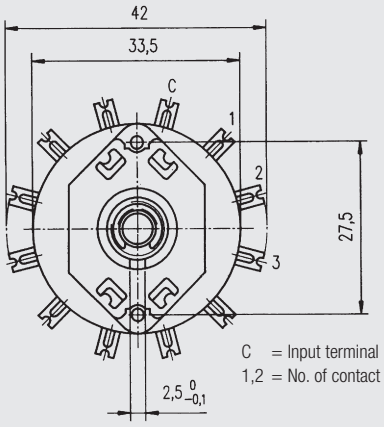
1.0 Construction			
1.1	Number of wafers max.		10 wafers*
1.2	Switching combinations per wafer Design B, detent angle 60°		1x6 to 1x2; 2x3 to 2x2; 3x2 Special design: Negative 1 pole, cumulative shorting up to 6 positions; special codings
	Design E, detent angle 30°		1x11 to 1x2; 2x5 to 2x2; 3x3 to 3x2; 4x2
1.3	Contacts		Soldering lugs
1.4	Mounting		Central mounting
2.0 Electrical Data			
2.1	Switching power max.		20 VA/W
2.2	Switching voltage max.		200 V~
2.3	Switching current max.		1 A
2.4	Rest current max. at ∂u 20°C		≤ 5 A
2.5	Test voltage at 50 Hz		1000 V
2.6	Life expectancy	without electrical load	≥ 25 000 cycles
		with power max.	≥ 10 000 cycles
2.7	Contact resistance initial value		≤ 20 mΩ
	Contact resistance	without electrical load	≤ 25 mΩ
	after life expectancy	with electrical load	≤ 30 mΩ
2.8	Insulation resistance		≥ 10^9 Ω
2.9	Capacity between 2 contacts		≤ 1 pF
	Capacity between contact and ground		≤ 1 pF
3.0 Mechanical Data			
3.1	Switching mode		Shorting or non-shorting
3.2	Stops		Fixed or without stop
3.3	Operating torque acc. to design		5 bis 50 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	Hollow shaft		As special design
3.8	Waterproofing		With 30° detent angle acc. to MIL-S-3786C
4.0 Other Data			
4.1	Contact material		Ag; Au as special design
4.2	Insulating material	Wafer	Laminated paper; Code HP
		Rotor	Polycarbonate, PC
4.3	Soldering time and temperature max.		3 s at 350°C, manual soldering

* For less than 4 circuits more than 10 wafers are possible.

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.

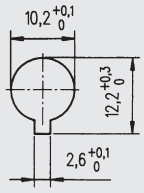
Dimensional Drawings · Dimensions in mm





C = Input terminal
1,2 = No. of contact terminals

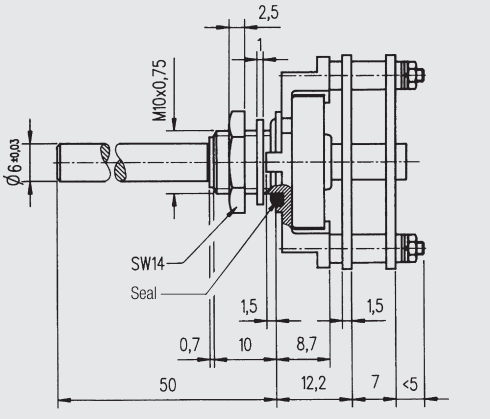
Viewed with disk and hexagon nut. Disk and nut are delivered separately.

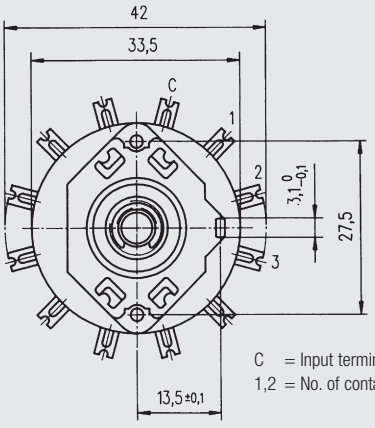


Mounting layout

SM 30	2 [1]	[2]	[3]	50 [4]	A [5]	[6]	[7]	HP [8]	[9]	1 [10]	L [11]	[12]	[13]

SM 30 · Standard version





C = Input terminal
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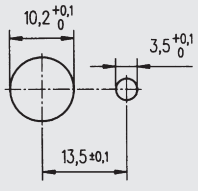


Mounting layout

SM 30	2 [1]	[2]	[3]	50 [4]	A [5]	[6]	[7]	HP [8]	[9]	1 [10]	L [11]	MIL [12]	WD [13]

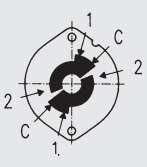
SM 30 · MIL version

1 pole
11 contacts
Rearside transparent

2 poles
5 contacts each
Rearside transparent

3 poles
3 contacts each
Rearside transparent

4 poles
2 contacts each
Front



4 poles
2 contacts each
Rearside transparent

SM 30 · Contact surfaces as viewed from detent mechanism