

Rotary Switch SM25





Rotary switch with a minimum installation depth.

- Standard version for conventional wiring.
- Single-wafer version also for direct soldering to printed circuits.
- Wafer material Noryl.
- High resistance to mechanical shocks due to knife blade contacts.
- Special designs
- MIL application design.
- BCD coding on single wafer code no.51.
- Double-sided positioning possible for reduced length and special coding.

1.0 Construction	
1.1 Number of wafers max.	6 wafers*
1.2 Switching combinations per wafer Design B, detent angle 60°	1x6to1x2; 2x3to2x2; 3x2; 4x2
Design G, detent angle 45°	1x8to1x2; 2x4to2x2
Design D, detent angle 36°	1x10 to 1x2; 2x4 to 2x2
Design E, detent angle 30°	3x8 to 3x2; 4x6 to 4x2
Design E, detent angle 30°, special design	1x11 to 1x2; 2x5 to 2x2; 3x3 to 3x2; 6x2
1.3 Contacts	Soldering lugs or pins
1.4 Mounting	Central mounting
* For local three Animality recent three Overfore are a called	

* For less than 4 circuits more than 6 wafers are possible	*	For	less	than	4 circuits	more	than	6	wafers	are	possible.
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2.0 Electrical Data				
2.1 Switching power max.		6VA/W		
2.2 Switching voltage max		200 V~		
2.3 Switching current max.		500 mA		
2.4 Rest current max. at ∂u	u 20°C	≤3A		
2.5 Test voltage at 50 Hz		750 V		
2.6 Life expectancy	without power	≥20 000 cycles		
	with power max.	≥10000 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 ¹¹ Ω		
2.9 Capacity between	2 contacts	≤0,5 pF		
	contact and ground	≤0,5 pF		

3.0 Mechanical Data				
3.1 Mode of switching		Shorting or non-shorting		
3.2 Stops standard design		Fixed or without stop		
	special design	Adjustable with 30° detent angle		
3.3 Operating torque according to design		5 to 40 Ncm		
3.4 Stop strength		≥150 Ncm		
3.5 Fastening torque max.		≥70 Ncm at thread M7		
		150 Ncm at thread M10		
3.6 Vibratory strength		≥10 g		
3.7 Shaft design		Hollow shaft as special design		
3.8 Waterproofing		If mounting according to MIL-S-3786		

4.0 Other Data				
4.1 Contact material		Ag standard design, Au as special design		
4.2 Insulating material	Wafer	Noryl, PPO; Code NO		
	Rotor	Polycarbonate, PC		
4.4 Soldering time and temperature max.		5s at 260°C		
		3s at 350°C, manual soldering		



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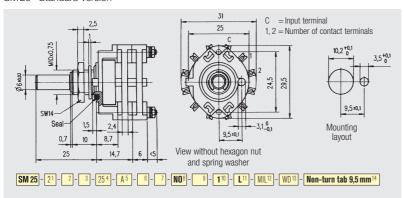
The bold-typed data in the yellow order blocks remain unchanged.

Normal-typed data match the drawings and can be modified according to your wishes.

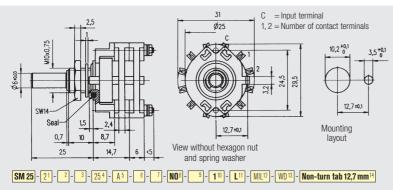
Blanks need to be completed according to the ordering details on the inside front cover.

Dimensional Drawings · Dimensions in mm 31 C = Input terminal 1, 2 = Number of contact terminals 1, 2 = Number of contact terminals 1, 2 = Number of contact terminals 2, 2, 3, 3, 4, 7, 6 2, 5, 6, 1, 1, 7, 6 View without hexagon nut and spring washer SM 25 - 21 - 2 - 3 - 25 + A\$ - 6 - 7 - No SM 25 - 21 - 2 - 3 - 25 + A\$

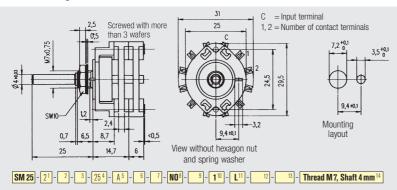
SM 25 · Standard version



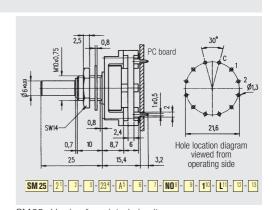
SM 25 · Watertight version. Non-turn tab 9,5 mm



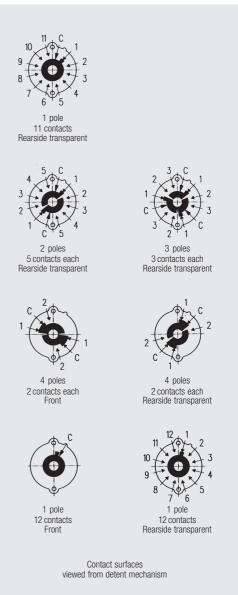
SM 25 · Watertight version. Non-turn tab 12,7 mm



 $\text{SM}\,25\cdot\text{Version}$ with shaft 4 mm (watertight version possible)



 $\text{SM}\,25\cdot\text{Version}$ for printed circuits



SM25 · Contact arrangements