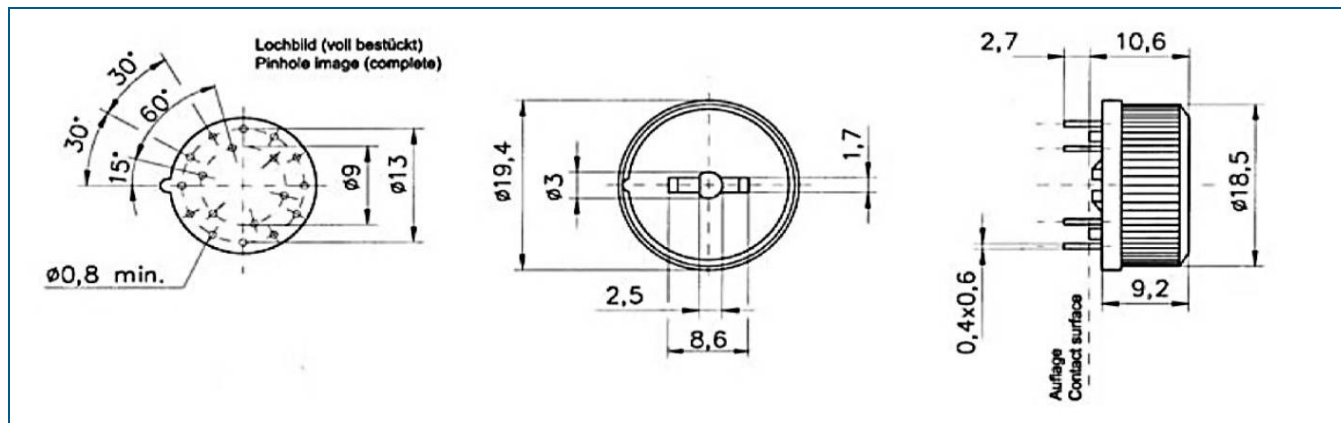
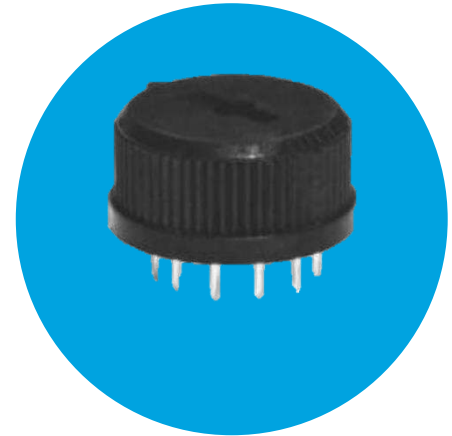


# Rotary knob switches

Serie 417

Type 417

Basic design: width 19.4 mm, operation by screwdriver



## Technical data

Switch resistance initial value	≤ 25 mΩ	Capacity between two contacts	≤ 3 p F
Switch resistance after 15 000 cycles	≤ 50 mΩ	Switching mode	Non shorting (white bottom plate), shorting (black bottom plate)
Insulation resistance	1 x 10 <sup>9</sup> Ω	Number of wafers	1 / single wafer
Test voltage	1 kV- / 1 kV DC	Indexing angle	30°
Switching voltage	Max. 150 V DC / AC	Stops	Fixed or without stop
Switching current	Max. 130 mA, Ag plated	Operating torque	2 - 4.5 Ncm
Switching power	Max. 5 VA, Ag plated	Solder terminals	For printed circuit
Steady current at 20 °C ambient temperature	3 A	Contact material	Silver plated copper alloy
Operating life at maximum power	≥ 15 000 cycles	Insulation material	Plastic
Operating life no load	≥ 20 000 cycles	Switching combinations (see page 2)	1 x 2 to 1 x 12; 2 x 2 to 2 x 6; 3 x 2 to 3 x 4; 4 x 2 to 4 x 3; 6 x 2

# Rotary knob switches

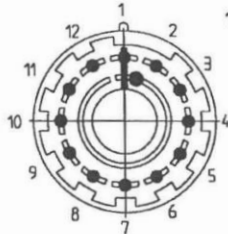
Serie 417

Type 417

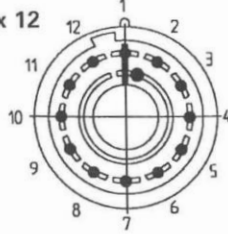
Basic design: width 19.4 mm, operation by screwdriver

## Switching Combinations

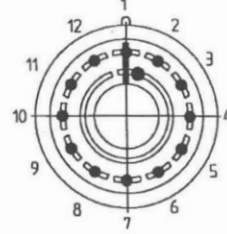
1-polig  
1 Pole



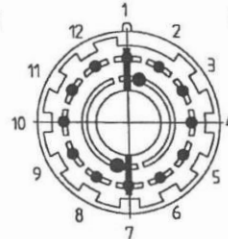
1 x 2 - 1 x 12



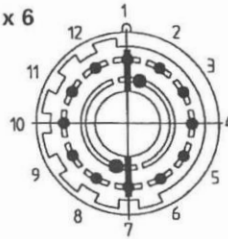
1-polig  
durchdrehbar  
1 Pole  
without stop



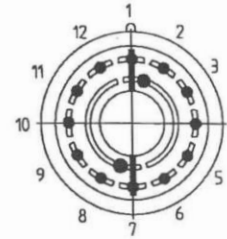
2-polig  
2 Pole



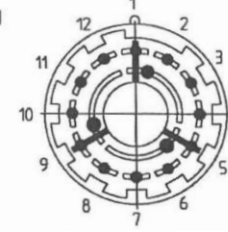
2 x 2 - 2 x 6



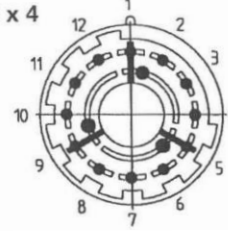
2-polig  
durchdrehbar  
2 Pole  
without stop



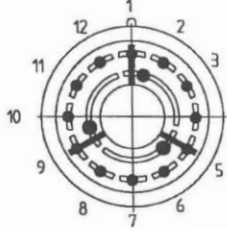
3-polig  
3 Pole



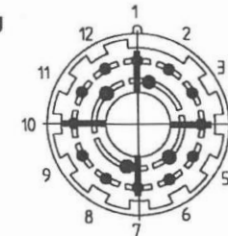
3 x 2 - 3 x 4



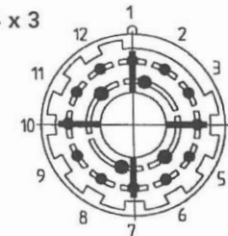
3-polig  
durchdrehbar  
3 Pole  
without stop



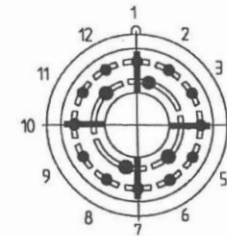
4-polig  
4 Pole



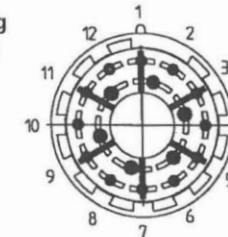
4 x 2 - 4 x 3



4-polig  
durchdrehbar  
4 Pole  
without stop



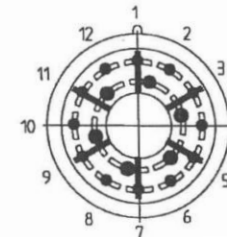
6-polig  
6 Pole



6 x 2



6-polig  
durchdrehbar  
6 Pole  
without stop



Erläuterung:  $2 \times 3 \hat{=} 2$ -polig, 3 Schaltstellungen  
Explanation:  $2 \times 3 \hat{=} 2$  Pole, 3 Ways