

General Information

This catalogue is divided by switch types: toggle switches, pushbutton switches, slide switches, dual-in-line switches, rotary coded switches, rotary switches, encoder, LED's and membranes.

The chapters include professional, semi-professional and low-cost components.

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The technical specification for each series is specifically stated. Unless otherwise specified, the figures for contact rating apply for the standard version.

For several series, especially MT... and MP..., the following is available:

- Standard version:** silver or silver-plated contacts and terminals
- Configuration B:** gold-plated (over Nickel) contacts and terminals
- Configuration G:** gold-plated (over silver) contacts and terminals

All switches are sealed on the terminal side.

Switches for SMT as well as most series for PCB mounting are generally fully washable.

Unless otherwise specified, components for auto- (wave-) soldering are limited to pre-heat max. 60s, max. 100 °C, soldering max. 5s, max. 260 °C.

Signs and symbols:



component is UL-listed

ESD: component is ESD-resistant. Resistance is depending from switch size and is listed in the technical data

IP 67: component has an approved IP rating or is according to an IP rating

CE: our products meet all relevant regulations



all components in this catalogue are compliant with regulation 2002/95/EC



IR-reflow soldering according to JEDEC ST-020 D
(peak 260 °C, 10s max.)

Type naming/switching functions

A group of a maximum of 4 identification letters is followed by up to 4 digits (excepted membranes and some switches with specific features).

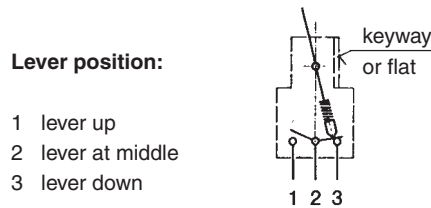
The letters are specific for the type of actuation, the digits describes certain technical features.

This is followed by the characteristic letters for the different switching functions (if there are):

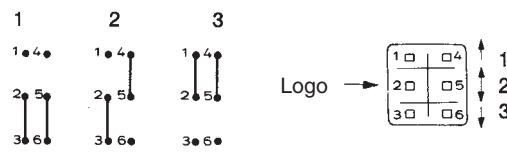
	A	off	–	on		
	B	on	–	(mom)		
	C	off	–	mom		
First column is used for 1/3 pole-, second column for 2/4 pole switches.	D	N	on	–	on	
For switches using same housing for 1 and 2 pole versions, only column 1 is used	E	P	on	off	on	
	F	R	mom	–	on	mom: momentary on
	G	S	mom	off	mom	(mom): momentary off
	H	T	mom	off	on	
	EA	PA	on	on	on	
		SA	mom	on	mom	
		TA	mom	on	on	

For all toggle switches, a dot on the top of the switching function table indicates the switching position with the lever in the direction of the keyway or the flattened thread. The closed contacts are always opposite to the position of the lever.

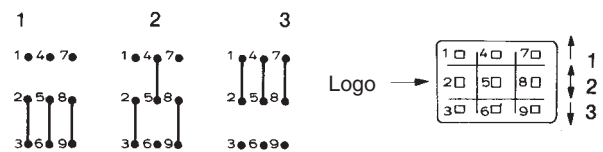
For PA, SA and TA types the poles are switched separately as shown in the diagram below:



DPDT



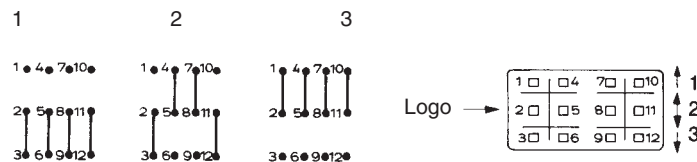
3PDT



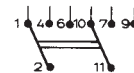
A connection between terminals 3 and 5 forms a one-pole three-position switch.



4PDT



Connections between terminals 3 and 5 and 8 and 12 form a two-pole three-position switch.



The catalog details are without obligation.