SERIES 1810 - SINGLE AND DOUBLE-POLE TOGGLE SWITCHES

TO 10 (4) A 250 V AC



PRODUCT FEATURES

- Attractive toggle switches
- 100 million times proven switching principle
- Long life endurance with 100 000 mechanical switching cycles
- Excellent actuating characteristic

ON REQUEST

- Other colors
- Other printing variants
- Other switching functions
- Other connection variants
- Cable assembly

Mechanical life endurance		5E4 (changeover switch with OFF position in center) 10E4
Contact resistance (new condition)		< 100 mOhm (1 A 12 V DC)
Insulation resistance (new condition)		> 100 MOhm (500 V DC)
Voltage strength at 250 V		1 500 V function insulation / basic insulation 3 000 V reinforced insulation 500 V small contact distance
Proof tracking		250 PTI
Insulation spacing		acc. to EN 61058 for reinforced or double insulation
Protection type		IP 40
Ambient temperature		connection side -20 °C ... +100 °C actuating side -20 °C ... +55 °C
Flammability		UL 94 V-2
Heat and fire resistance		850 °C (category D)
Material	actuator housing connections	PA PA silver-plated
Plug force of the terminals		≤ 80 N
Approval marks		/ /
Suitable for appliances of protection class II		





SERIES 1810 - SINGLE AND DOUBLE-POLE TOGGLE SWITCHES

TO 10 (4) A 250 V AC



single-pole

	Actuator color / printing	Housing color	10 (4) A 250 V AC 1E4	6 (4) A 250 V AC 5E4	6 (2) A 250 V AC 1E4	4 (2) A 250 V AC 1E4	6 A 250 V AC 1/2 HP	6 A 125 V AC 1/4 HP	6 A 125 - 250 V AC 1/8 HP	6 A 125 V AC 1/10 HP	4 A 250 V AC 1/10 HP	Connection type	Connection description	Contact distance in mm	Contact material	Miscellaneous	Stock version
ON/OFF switch (SPST)																	
1811.1102			●	●			●	●					4.8	≥ 3	Ag		●
Normally open contact (SPNO)																	
1811.1202						●				●	●		4.8	≥ 3	Ag		
Switch (SPDT)																	
1813.1102			●	●			●	●					4.8	≥ 3	Ag		●
Switch with OFF position in the center (SPDT - Center OFF)																	
1818.1102					●				●				4.8	< 3	Ag		●
1818.1202					●				●				4.8	< 3	Ag	momentary function one side	●
1818.1302					●				●				4.8	< 3	Ag	momentary function both sides	●
1818.2302					●				●					< 3	Ag	momentary function both sides	



double-pole

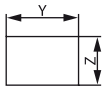
	Actuator color / printing	Housing color	10 (4) A 250 V AC 1E4	6 (4) A 250 V AC 5E4	6 (2) A 250 V AC 1E4	4 (2) A 250 V AC 1E4	6 A 250 V AC 1/2 HP	6 A 125 V AC 1/4 HP	6 A 125 - 250 V AC 1/8 HP	6 A 125 V AC 1/10 HP	4 A 250 V AC 1/10 HP	Connection type	Connection description	Contact distance in mm	Contact material	Miscellaneous	Stock version
ON/OFF switch (DPST)																	
1812.1102			●	●			●	●					4.8	≥ 3	Ag		●
Switch (DPDT)																	
1814.2102			●	●			●	●						≥ 3	Ag		
Switch with OFF position in the center (DPDT - Center OFF)																	
1819.1102					●				●				4.8	< 3	Ag		●
1819.1302					●				●				4.8	< 3	Ag	momentary function both sides	●

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TO 10 (4) A 250 V AC

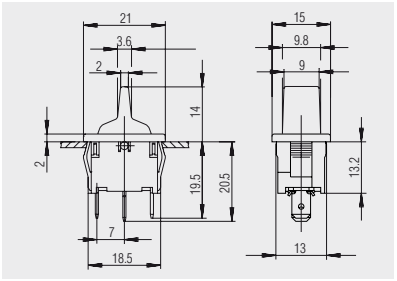


Basic types 1811, 1813 and 1818
single-pole

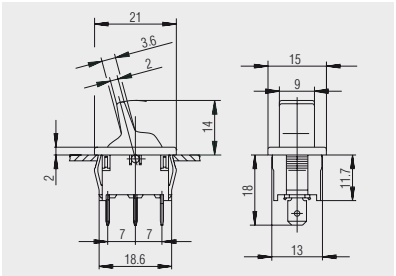


X = Wall thickness

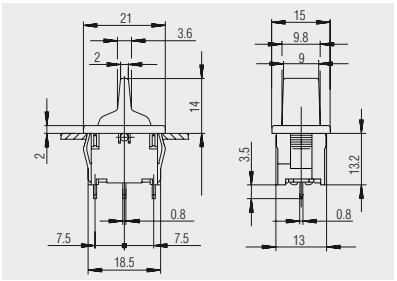
X	Y	Z
0.75 ... 1.25	19.2 $^{-0.1}$	12.9 $^{+0.1}$
1.25 ... 2	19.4 $^{-0.1}$	12.9 $^{+0.1}$
2 ... 3	19.8 $^{-0.1}$	12.9 $^{+0.1}$



Quick-connect terminal 4.8
basic type 1818



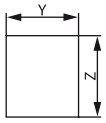
Quick-connect terminal 4.8
basic types 1813 and 1811
without third connection



PCB terminal
basic type 1818

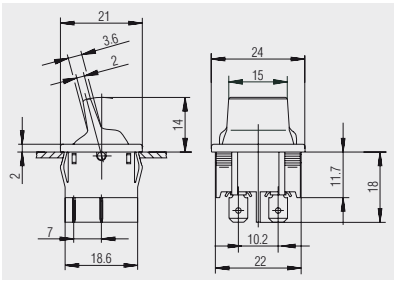


Basic types 1812, 1814 and 1819
double-pole

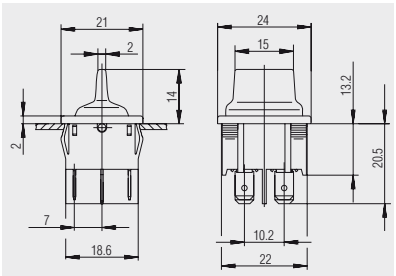


X = Wall thickness

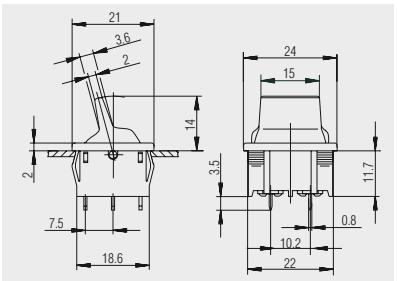
X	Y	Z
0.75 ... 1.25	19.2 $^{-0.1}$	21.9 $^{+0.1}$
1.25 ... 2	19.4 $^{-0.1}$	21.9 $^{+0.1}$
2 ... 3	19.8 $^{-0.1}$	21.9 $^{+0.1}$



Quick-connect terminal 4.8
basic type 1812



Quick-connect terminal 4.8
basic type 1819



PCB terminal
basic type 1814