



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 terminal 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)
Proof tracking	250 PTI
Protection type	IP 40
Ambient temperature	terminal side -20 °C ... +100 °C actuating side -20 °C ... +55 °C
Flammability	UL 94 V-2
Glow wire test temperature	850 °C
Material actuator housing terminals	PA PA silver plated
Plug force of the terminals	≤ 80 N
Approval marks	 /  / 
Suitable for appliances of protection class II	



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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	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
ON / OFF switch (SPST)																	
1811.1102			o	o			o	o					4.8	≥ 3	Ag		o
Normally open contact (SPNO)																	
1811.1202						o				o	o		4.8	≥ 3	Ag		
Changeover switch (SPDT)																	
1813.1102			o	o			o	o					4.8	≥ 3	Ag		o
Changeover switch with OFF position in the center (SPDT - Center OFF)																	
1818.1102					o				o				4.8	< 3	Ag		o
1818.1202					o				o				4.8	< 3	Ag	momentary function one side	o
1818.1302					o				o				4.8	< 3	Ag	momentary function one side	o
1818.2302					o				o					< 3	Ag	momentary function one side	

 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	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
ON / OFF switch (DPST)																	
1812.1102			o	o			o	o					4.8	≥ 3	Ag		
Changeover switch (DPDT)																	
1814.2102			o	o			o	o						≥ 3	Ag		
Changeover switch with OFF position in the center (DPDT - Center OFF)																	
1819.1102					o				o				4.8	< 3	Ag		
1819.1302					o				o				4.8	< 3	Ag	momentary function both sides	o

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH 'N' DRIVE

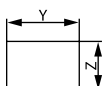


SERIES 1810 - SINGLE AND DOUBLE-POLE TOGGLE SWITCHES

TO 10 (4) A 250 V AC

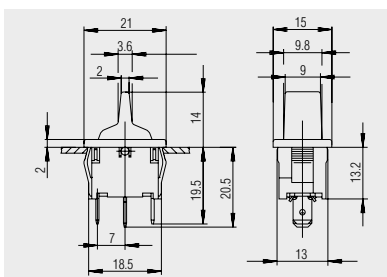


Basic types 1811, 1813 and 1818
single-pole

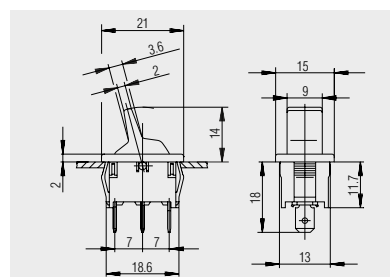


X = Wall thickness

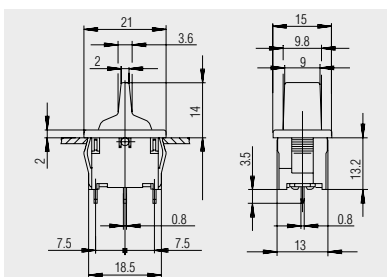
x	y	z
0.75 ... 1.25	19.2 ^{-0.1}	12.9 ^{+0.1}
1.25 ... 2	19.4 ^{-0.1}	12.9 ^{+0.1}
2 ... 3	19.8 ^{-0.1}	12.9 ^{+0.1}



Quick-connect terminal 4.8 x 0.8
basic type 1818



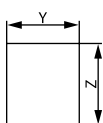
Quick-connect terminal 4.8 x 0.8
basic types 1813 and 1811
without third terminal



PCB terminal
basic type 1818

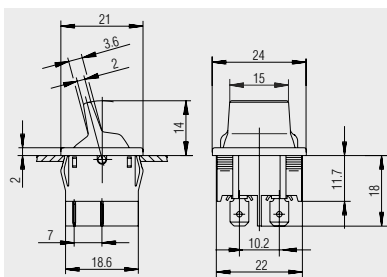


Basic types 1812, 1814 and 1819
double-pole

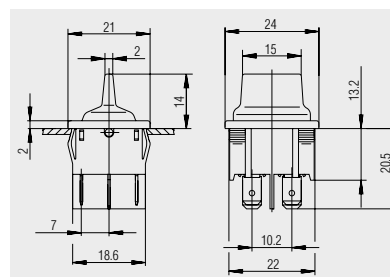


X = Wall thickness

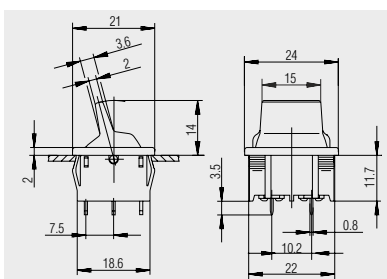
x	y	z
0.75 ... 1.25	19.2 ^{-0.1}	21.9 ^{+0.1}
1.25 ... 2	19.4 ^{-0.1}	21.9 ^{+0.1}
2 ... 3	19.8 ^{-0.1}	21.9 ^{+0.1}



Quick-connect terminal 4.8 x 0.8
basic type 1812



Quick-connect terminal 4.8 x 0.8
basic type 1819



PCB terminal
basic type 1814

ROCKER SWITCHES

PUSHBUTTON SWITCHES

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TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

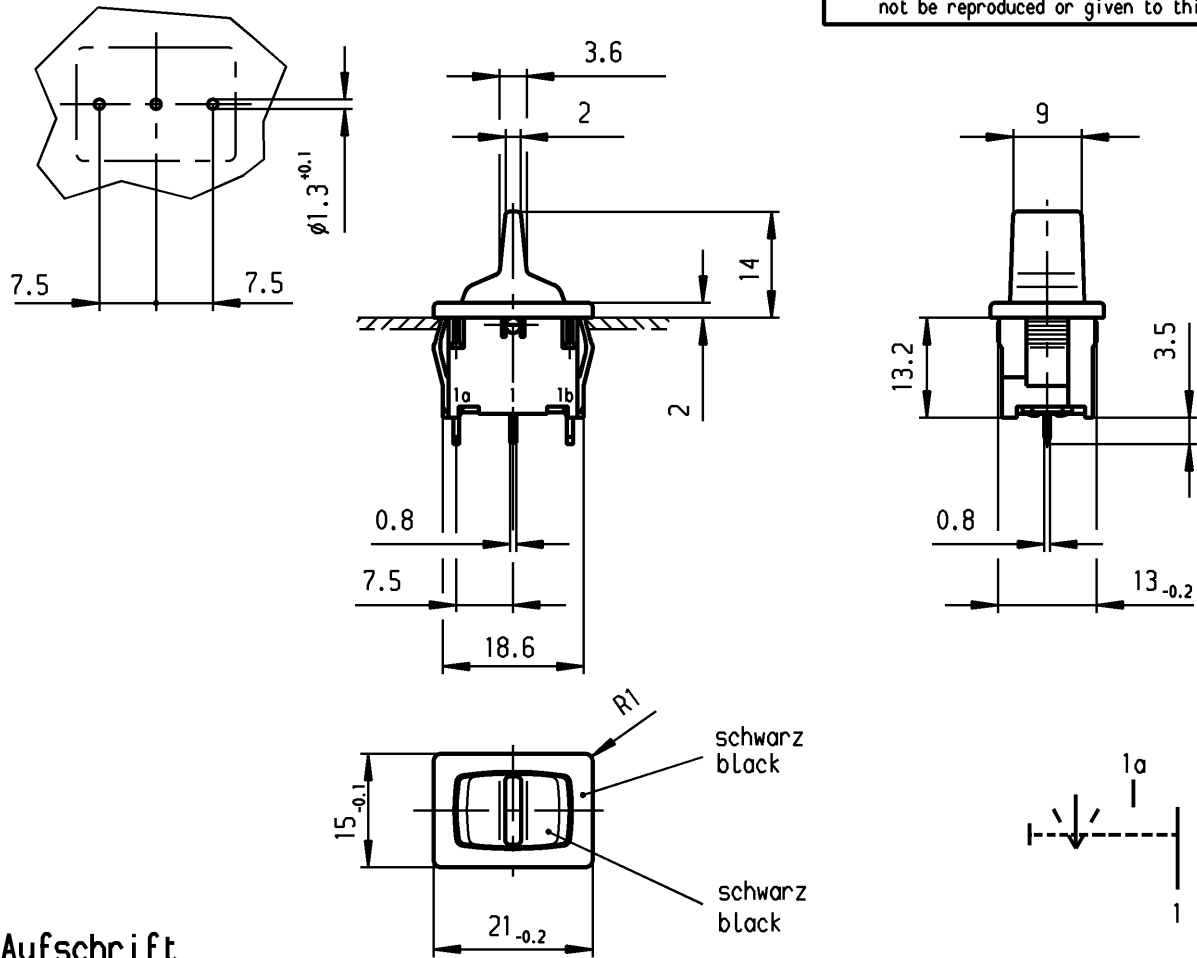
PUSH'N'DRIVE

1	2	3	4
A	Empfohlener Ausschnitt für Rastbefestigung (Grat gegenüber Bestückungsseite) recommended cut-out for snap-in fixing (edge opposite to snap-in direction)	Wanddicke wall thickness 0.75 bis / to 1.25 1.25 bis / to 2 2 bis / to 3	Ausschnittlänge length of cut-out 19.2 -0.1 19.4 -0.1 19.8 -0.1
B	Empfohlenes Lochbild Bauteilseite Toleranzen nach DIN 40803 Teil 1 fein recommended terminal layout side of component tolerances as per DIN 40803 item 1 fine		
C			
D			
E			

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Aufschrift Marking



1818. μ

6(2)/250~T100/55



6A 125-250V AC

1/8HP

R58



Umschalter 1-polig

Mit Ausstellung in der Mitte

Tastfunktion beidseitig

Für Geräte der Klasse II geeignet

SPDT

with centre-off

biased from both sides

suitable for appliances of class II

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Für Form und Lage FOR SHAPE AND LOC.			Allgemeintoleranzen UNTOLERANCED DIMENSIONS					Pause COPY	Blatt SHEET 01		Typ K	Zeichn./DRAWING NO. 1818.2302	Index
			PROJECTION 	Abmasse und Nennmassbereiche Angaben in mm ALL DIMENSIONS ARE IN MILLIMETRES	Laengen LENGTH		Radien RADII		Original DIN A4	Maßstab SCALE 1:1			
0-6 ± 0.2		± 0.2											
>6-15 ± 0.4		±											
>15-30 ± 0.4		±											
>30-70 ±		±											
>70-120 ±		±											
>120-200 ±		±											
Für Winkel FOR ANGLE ± 2° 								0 10 20 30 mm					
c			g			CAD Medusa		Z		Geräteschalter Appliance Switch			
b	64505	08.04.10 Mut	f			gez./DRAWN BY 07.10.97 sig							
a	29866	31.07.00 sig	e			gepr./CHECKED BY kiz				MARQUARDT Marquardt, D-78604 Rietheim-Weilheim			
			d			Ersatz für/REPLACEMENT OF							
Ausg. ISSUE	Änderung REVISION	gez. DRAWN BY	Ausg. ISSUE	Änderung REVISION	gez. DRAWN BY								