

# SERIES 1881 - SINGLE-POLE ROUND ROCKER SWITCHES

T0 12 (4) A 250 V AC



## PRODUCT FEATURES

- ◆ Attractive round rocker switch
- ◆ High mechanical rating with at least 100 000 switching cycles
- ◆ Variants with IP 51
- ◆ Low depth with 18.7 mm
- ◆ Appliance cut-out with 20 mm

## ON REQUEST




















- ◆ Other colors
- ◆ Other printing variants
- ◆ Other connection variants (e.g. PCB)
- ◆ Cable assembly
- ◆ Gold-plated contacts for low voltages
- ◆ Changeover switch
- ◆ Painted variants

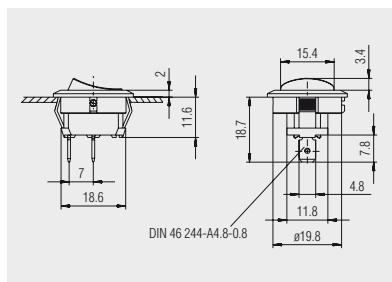
Mechanical life endurance	10E4
Operating force	3 N
Inrush current (capacitive)	70 A
Contact resistance (new condition)	< 100 mOhm (1 A 12 V DC)
Insulation resistance (new condition)	> 100 MOhm (500 V DC)
Voltage strength at 250 V	1 500 V function insulation / basic insulation 3 000 V reinforced insulation 500 V small contact distance
Proof tracking	250 PTI
Insulation spacing	acc. to EN 61058 for reinforced or double insulation
Protection type	IP 40 and IP 51 (product-dependent)
Ambient temperature	connection side -20 °C ... +100 °C actuating side -20 °C ... +55 °C
Flammability	UL 94 V-0 (product-dependent) UL 94 V-2
Heat and fire resistance	850 °C (category D)
Material	actuator PA housing PA connections silver-plated
Plug force of the terminals	≤ 80 N
Approval marks	/
Suitable for appliances of protection class II	




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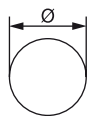
TO 12 (4) A 250 V AC

	Actuator color / printing	Housing color	12 (4) A 250 V AC 1E4	8 (8) A 250 V AC 5E4	15 A 250 V AC 1 1/2 HP	15 A 125 V AC 3/4 HP	Connection type	Connection description	Contact distance in mm	Contact material	Actuator	EN 60335 cap. 30 conform "G"	Miscellaneous	Stock version
<b>ON/OFF switch (SPST)</b>														
<b>1881.1103</b>			●	●	●	●		4.8	≈ 3	Ag	IP 40			●
<b>1881.1104</b>			●	●	●	●		4.8	≈ 3	Ag	IP 40			●
<b>1881.1105</b>			●	●	●	●		4.8	≈ 3	Ag	IP 40			●
<b>1881.1106</b>			●	●	●	●		4.8	≈ 3	Ag	IP 40	●		
<b>1881.1108</b>			●	●	●	●		4.8	≈ 3	Ag	IP 51	●	with switching system cover	●
<b>Normally open contact (SPNO)</b>														
<b>1881.1209</b>			●	●	●	●		4.8	≈ 3	Ag	IP 51		opening connection 1b closed with switching system cover	



 Quick-connect terminal 4.8








Basic type 1881
















X = Wall thickness

X	Ø
0.75 ... 1.25	20.3
1.25 ... 2	20.8
2 ... 3	21.1

















## APPROVAL MARKS

	ENEC 05 (KEMA)		UL (USA)
	ENEC 10 (VDE)		UL (USA + Canada)
	VDE		CSA (Canada)
			CSA (Canada + USA)

## TERMINAL SYMBOLS

	Quick-connect terminal		Cable
	Solder terminal		Terminal strip
	Short solder terminal		Push-in terminal
	PCB terminal		Snap-in terminal
	PCB terminal angled to left		Cut terminal
	PCB terminal angled to right		Screw terminal
	Socket terminal		

## ACTUATOR SYMBOLS

	Straight lever		Lever simulated roller with adjusting screw
	Lever simulated roller		Lever with adjusting screw and roller
	Lever with roller		Lever with cams
	Differential lever		Housing cams
	Spring lever		Pushbutton
	Spring lever bent		Rotary shaft
	Spring lever with molded spring cam		Standard actuator
	Lever with adjusting screw		Mushroom-shaped actuator

## ABBREVIATIONS TECHNICAL DRAWINGS

<b>ad</b>	Adjustable	<b>OP</b>	Operating position
<b>AN</b>	Anode	<b>OP NC</b>	Operating position normally closed contact
<b>BL</b>	Block	<b>OP NO</b>	Operating position normally open contact
<b>FH</b>	Fixing hole, locating hole fixing pin	<b>OR</b>	On request
<b>FI</b>	Fields for function indicator	<b>RC</b>	Recommended cut-out
<b>FP</b>	Free position	<b>RL</b>	Reference level
<b>FX</b>	Fixing pin	<b>SH</b>	Snap-in hole
<b>ju</b>	Adjusted	<b>SL</b>	Symbol limit
<b>MC</b>	Marking cathode	<b>SP</b>	Solder pads
<b>MF</b>	Mounting frame	<b>ST</b>	Slide travel
<b>MP</b>	Measuring point	<b>SW</b>	Switching position
<b>OFF</b>	Off	<b>TH</b>	Terminal hole
<b>off-range</b>	Zero position	<b>tk</b>	Thick
<b>OG</b>	Operating range	<b>to</b>	Top
<b>ON</b>	On	<b>TP</b>	Total travel position

## SWITCHING FREQUENCY (ABBREVIATIONS)

e.g. 5E4 switching cycles  $\hat{=}$  50 000 switching cycles