

# SERIES 1820 - SINGLE AND DOUBLE-POLE TOGGLE SWITCHES

TO 6 (4) A 250 V AC






## PRODUCT FEATURES

- ◆ 100 million times proven switching principle
- ◆ Long life endurance with 50 000 mechanical switching cycles
- ◆ Excellent actuating characteristic
- ◆ Fastening with nut M12

## ON REQUEST

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

Mechanical life endurance	5E4
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 PA housing PA glass fiber-reinforced / PA connections silver-plated
Plug force of the terminals	≤ 80 N
Approval marks	 /  / 
Suitable for appliances of protection class II	



ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

POWER TOOL SWITCHES

TACT AND KEY SWITCHES




































SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

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 single-pole	Actuator color / printing	Housing color	6 (4) A 250 V AC 5E4	6 (2) A 250 V AC 1E4	6 A 250 V AC 1/2 HP	6 A 125 V AC 1/4 HP	Connection type	Connection description	Contact distance in mm	Contact material	Miscellaneous	Stock version
<b>ON/OFF switch (SPST)</b>												
1821.1101			●		●	●		4.8	≥ 3	Ag		●
1821.6101			●		●	●			≥ 3	Ag		●
<b>Switch (SPDT)</b>												
1823.1101			●					4.8	≥ 3	Ag		●
1823.6101			●						≥ 3	Ag		●
<b>Switch with OFF position in the center (SPDT - Center OFF)</b>												
1828.1101				●				4.8	< 3	Ag		●
1828.1201				●				4.8	< 3	Ag	momentary function one side	●
1828.1301				●				4.8	< 3	Ag	momentary function both sides	●
 double-pole	Actuator color / printing	Housing color	6 (4) A 250 V AC 5E4	6 (2) A 250 V AC 1E4	6 A 250 V AC 1/2 HP	6 A 125 V AC 1/4 HP	Connection type	Connection description	Contact distance in mm	Contact material	Miscellaneous	Stock version
<b>ON/OFF switch (DPST)</b>												
1822.1101			●		●	●		4.8	≥ 3	Ag		●
<b>Switch (DPDT)</b>												
1824.1101			●					4.8	≥ 3	Ag		●
<b>Switch with OFF position in the center (DPDT - Center OFF)</b>												
1829.1101				●				4.8	< 3	Ag		●
1829.1301				●				4.8	< 3	Ag	momentary function both sides	●

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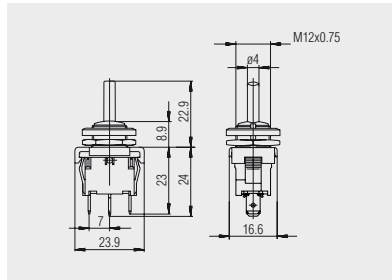
SENSORS

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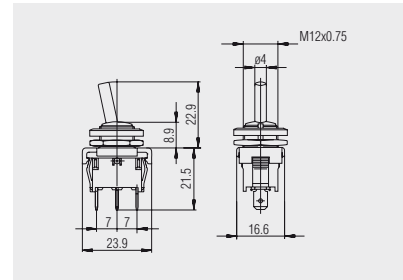
TO 6 (4) A 250 V AC



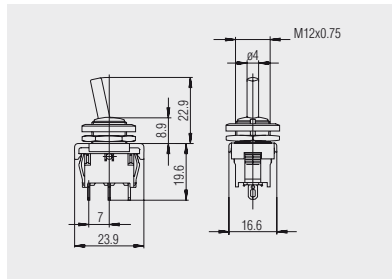
Basic types 1821, 1823 and 1828 single-pole



Quick-connect terminal 4.8 basic type 1828



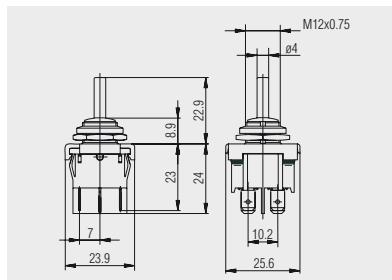
Quick-connect terminal 4.8 basic types 1821 and 1823



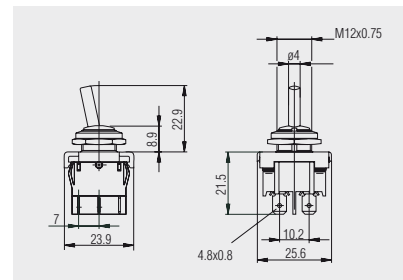
Solder terminal 1821.6101 and 1823.6101



Basic types 1822, 1824 and 1829 double-pole



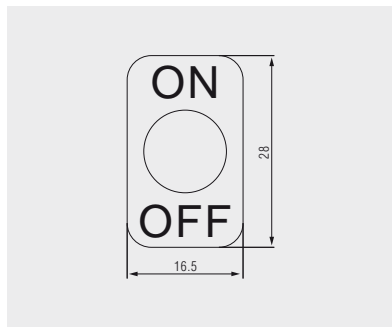
Quick-connect terminal 4.8 basic type 1829



Quick-connect terminal 4.8 basic types 1822 and 1824



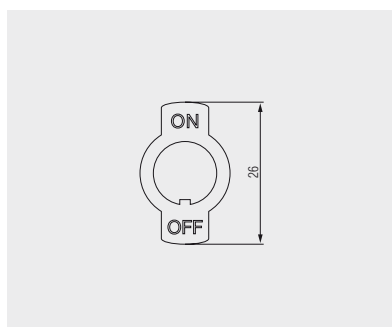
Identification plate 240.001.011



Identification plate of aluminum for plugging on with black inscription "ON" and "OFF"



Identification plate 240.002.011



Identification plate of CuZn nickel-plated for plugging on as well as with twist protection and stamped inscription "ON" and "OFF"

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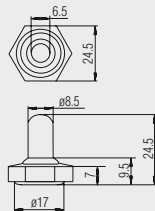
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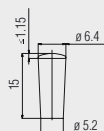
Protection cap  
343.001.013 - green  
343.001.023 - black  
343.001.033 - red



Neopren® - cap for screwing on (M12 x 0.75) to levers of the series 1820 for dust and water protection of the actuator side



Lever receptacle  
203.105.011 - black  
203.105.021 - white  
203.105.031 - red  
203.105.041 - green



Lever receptacle in various colors for the plastic levers of the 1820 series for customer assembly. Serves as a design element and for distinguishing and marking.

Further information under

[WWW.MARQUARDT.DE](http://WWW.MARQUARDT.DE)

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