



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 terminal 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)
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 glass fiber-reinforced / PA silver plated
Plug force of the terminals	≤ 80 N
Approval marks	 /  / 
Suitable for appliances of protection class II	



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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	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
	ON / OFF switch (SPST)											
1821.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		<input type="radio"/>
1821.6101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			≥ 3	Ag		<input type="radio"/>
Changeover switch (SPDT)												
1823.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		<input type="radio"/>
1823.6101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			≥ 3	Ag		<input type="radio"/>
Changeover switch with OFF position in the center (SPDT - Center OFF)												
1828.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	< 3	Ag		<input type="radio"/>
1828.1201			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	< 3	Ag	momentary function one side	<input type="radio"/>
1828.1301			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	< 3	Ag	momentary function both sides	<input type="radio"/>

 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	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
	ON / OFF switch (DPST)											
1822.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		<input type="radio"/>
Changeover switch (DPDT)												
1824.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		<input type="radio"/>
Changeover switch with OFF position in the center (DPDT - Center OFF)												
1829.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	< 3	Ag		<input type="radio"/>
1829.1301			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	< 3	Ag	momentary function both sides	<input type="radio"/>

ROCKERSWITCHES

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

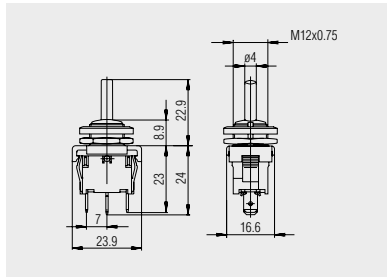


SERIES 1820 - SINGLE AND DOUBLE-POLE TOGGLE SWITCHES

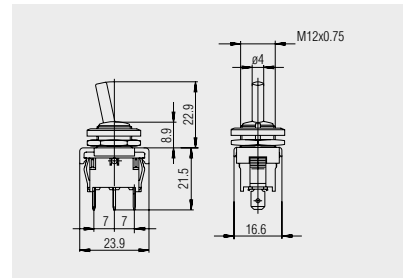
TO 6 (4) A 250 V AC



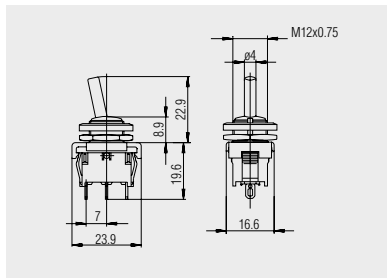
Basic types 1821, 1823 and 1828
single-pole



Quick-connect terminal 4.8 x 0.8
basic type 1828



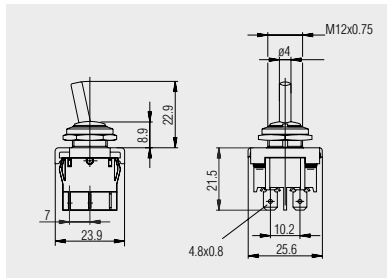
Quick-connect terminal 4.8 x 0.8
basic types 1821 and 1823



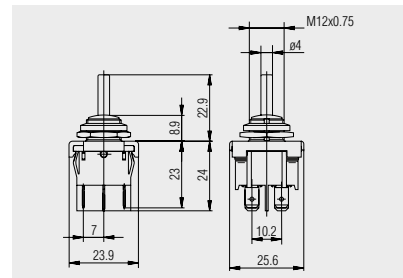
Solder terminal
1821.6101 and 1823.6101



Basic types 1822, 1824 and 1829
double-pole



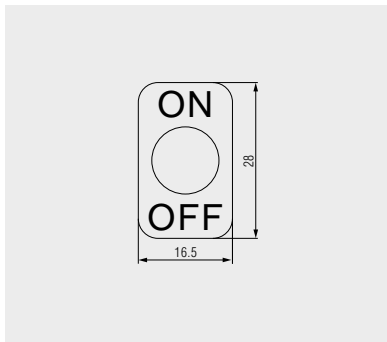
Quick-connect terminal 4.8 x 0.8
basic type 1822 and 1824



Quick-connect terminal 4.8 x 0.8
basic type 1829



Identification plate
240.001.011



Aluminum identification plate to
plugging on and with black inscription
"ON" and "OFF"

ROCKER SWITCHES
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FOOT SWITCHES
TACT AND KEY SWITCHES
SNAP-ACTION SWITCHES
MICRO-SIGNAL SWITCHES
SENSORS
ECO
PUSH 'N' DRIVE

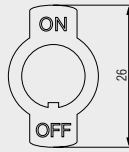


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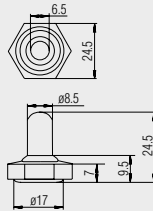
Identification plate
240.002.011



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



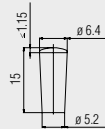
Protection cap
343.001.013 - green
343.001.023 - black
343.001.033 - red



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

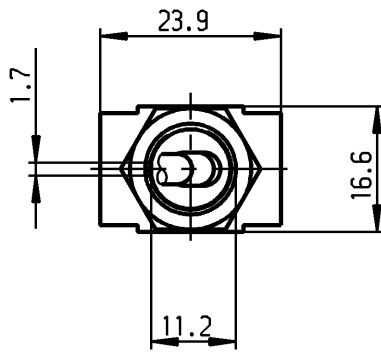
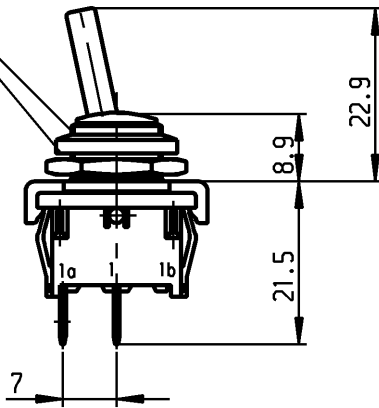


Lever receptacle in various colors for the plastic levers of the 1820 series for customer assembly. Serves as a design element and for distinguishing and marking.

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Muttern lose beigelegt
 nuts loose added



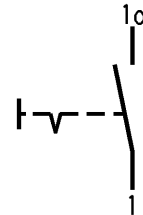
M12x0.75



schwarz
black

schwarz
black

Flachstecker oehnl.
 plug-in sim.
 DIN 46 244-A4.8-0.8



**Aufschrift
 Marking**



1821.

6(4)/250~5E4 T100/55



6A 125-250V AC

1/4HP 125V AC

1/2HP 250V AC

R30

Ausschalter 1-polig

Für Gerate der Klasse II geeignet

SPST

suitable for appliances of class II

Herstellort /-jahr/-woche nach DIN EN 60062

date of manufacture: place/year/week acc. to DIN EN 60062

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Für Form und Lage FOR SHAPE AND LOC. Für Winkel FOR ANGLE ± 2°		ALLgemeintoleranzen UNTOLERANCED DIMENSIONS		Pause COPY		Blatt SHEET 01 Original DIN A4 Maßstab SCALE 1:1		Typ K Zeichn./DRAWING NO. 1821.1101 Index	
PROJECTION		Abmasse und Nennmassbereiche Angaben in mm ALL DIMENSIONS ARE IN MILLIMETRES		Laengen LENGTH Radien RADII		0 10 20 30 mm		Gerateschalter appliance switch	
c 56042 21.01.08 vor		g		CAD Medusa Z		gez./DRAWN BY 15.11.00B.Zim		MARQUARDT Marquardt, D-78604 Riethem-Weilheim	
b 29868 15.11.00 B.Zim		f		gez./DRAWN BY		gepr./CHECKED BY		Ersatz für/REPLACEMENT OF Zchnng.qL.Nr.v.06.11.81	
a 16915 11.10.85 Hs		e		d 64505 22.04.10 Mut		Ersatz für/REPLACEMENT OF Zchnng.qL.Nr.v.06.11.81		Ersatz für/REPLACEMENT OF Zchnng.qL.Nr.v.06.11.81	
Ausg. ISSUE		Änderung REVISION		gez. DRAWN BY		Ausg. ISSUE		Änderung REVISION	