



TOGGLE SWITCHES

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	

ROCKER SWITCHES

PUSHBUTTON SWITCHES

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MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH'N'DRIVE



SERIES 0350

Three-pole toggle switches
to 10 (4) A 400 V AC



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SERIES 1810

Single and double-pole toggle
switches
to 10 (4) A 250 V AC

Appliance cut-out: 19,2 x 12,9 mm
19,2 x 21,9 mm



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132 – 134

SERIES 1820

Single and double-pole toggle
switches
to 6 (4) A 250 V AC

Appliance cut-out: Ø 12 mm



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135 – 138

SERIES 0100

Single-pole toggle switches
to 2 A 250 V AC

Appliance cut-out: Ø 12 mm



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139 – 140



SERIES 0350 - THREE-POLE TOGGLE SWITCHES

TO 10 (4) A 400 V AC

PRODUCT FEATURES


- Robust and efficient rocker switch with 100 000 mechanical switching cycles
- With dust seal
- Approval for 400 V

ON REQUEST

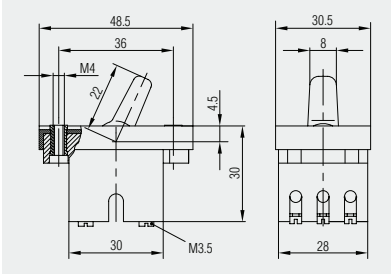
- Other terminal types

Mechanical life endurance	1E5
Material actuator housing terminals	Duroplast Duroplast / PA glass fiber-reinforced chromated
Approval marks	
Suitable for appliances of protection class II	

	Actuator color / printing	Housing color	10 (4) A 400 V AC 5E4	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
ON / OFF switch (TPST)									
0350.0101			○		M3.5	≥ 3	Ag	lever with red dot	○
0350.2101			○		M3.5	≥ 3	Ag	3 auxiliary terminals lever with red dot	



Basic type 0350



Socket terminal M3.5

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 PUSH IN DRIVE



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	



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	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
ON / OFF switch (SPST)																	
1811.1102			<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>					4.8	≥ 3	Ag		<input type="radio"/>
Normally open contact (SPNO)																	
1811.1202					<input type="radio"/>					<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		
Changeover switch (SPDT)																	
1813.1102			<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 (SPDT - Center OFF)																	
1818.1102				<input type="radio"/>					<input type="radio"/>				4.8	< 3	Ag		<input type="radio"/>
1818.1202				<input type="radio"/>					<input type="radio"/>				4.8	< 3	Ag	momentary function one side	<input type="radio"/>
1818.1302				<input type="radio"/>					<input type="radio"/>				4.8	< 3	Ag	momentary function one side	<input type="radio"/>
1818.2302				<input type="radio"/>					<input type="radio"/>					< 3	Ag	momentary function one side	<input type="radio"/>

 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			<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>					4.8	≥ 3	Ag		
Changeover switch (DPDT)																	
1814.2102			<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>						≥ 3	Ag		
Changeover switch with OFF position in the center (DPDT - Center OFF)																	
1819.1102				<input type="radio"/>					<input type="radio"/>				4.8	< 3	Ag		
1819.1302				<input type="radio"/>					<input type="radio"/>				4.8	< 3	Ag	momentary function both sides	<input type="radio"/>

ROCKERSWITCHES
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 SNAP-ACTION SWITCHES
 MICRO-SIGNAL SWITCHES
 SENSORS
 ECO
 PUSH IN DRIVE

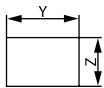


SERIES 1810 - SINGLE AND DOUBLE-POLE TOGGLE SWITCHES

TO 10 (4) A 250 V AC

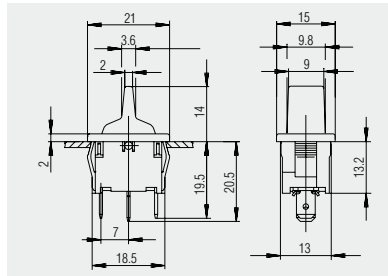


Basic types 1811, 1813 and 1818 single-pole

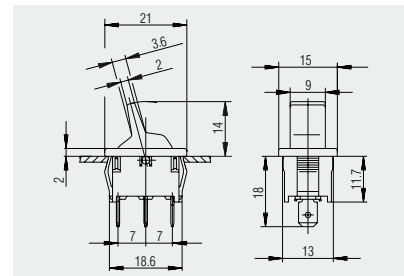


X = Wall thickness

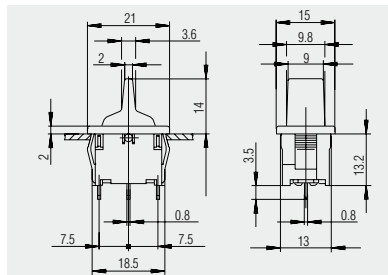
x	y	z
0.75 ... 1.25	19.2 ^{-0.1}	12.9 ^{+0.1}
1.25 ... 2	19.4 ^{-0.1}	12.9 ^{+0.1}
2 ... 3	19.8 ^{-0.1}	12.9 ^{+0.1}



Quick-connect terminal 4.8 x 0.8 basic type 1818



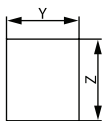
Quick-connect terminal 4.8 x 0.8 basic types 1813 and 1811 without third terminal



PCB terminal basic type 1818

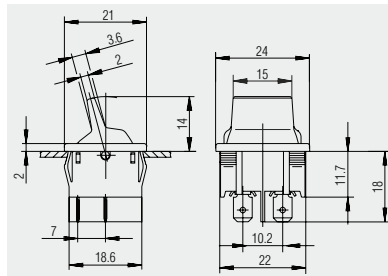


Basic types 1812, 1814 and 1819 double-pole

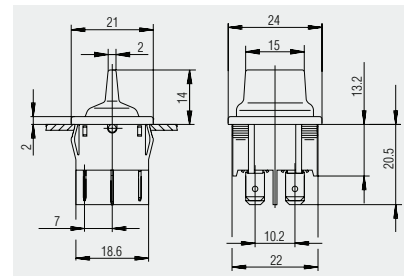


X = Wall thickness

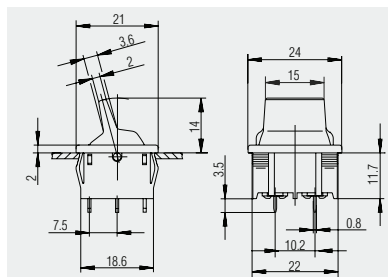
x	y	z
0.75 ... 1.25	19.2 ^{-0.1}	21.9 ^{+0.1}
1.25 ... 2	19.4 ^{-0.1}	21.9 ^{+0.1}
2 ... 3	19.8 ^{-0.1}	21.9 ^{+0.1}



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

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SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH/DRIVE



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 PA housing PA glass fiber-reinforced / PA terminals 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

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS


ECO


PUSH IN DRIVE



SERIES 1820 - SINGLE AND DOUBLE-POLE TOGGLE SWITCHES

TO 6 (4) A 250 V AC

 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"/>

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/DRIVE

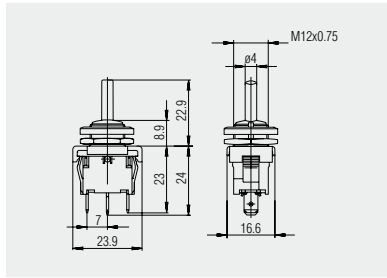


SERIES 1820 - SINGLE AND DOUBLE-POLE TOGGLE SWITCHES

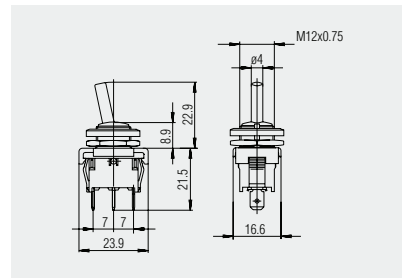
TO 6 (4) A 250 V AC



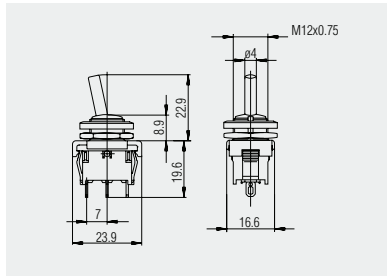
Basic types 1821, 1823 and 1828 single-pole



Quick-connect terminal 4.8 x 0.8 basic type 1828



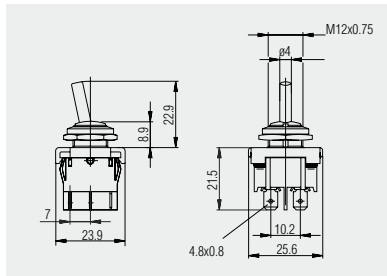
Quick-connect terminal 4.8 x 0.8 basic types 1821 and 1823



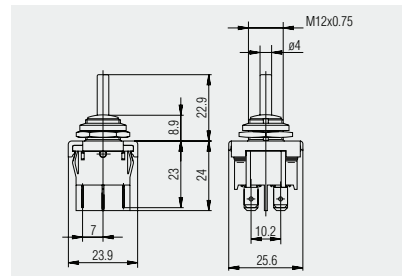
Solder terminal 1821.6101 and 1823.6101



Basic types 1822, 1824 and 1829 double-pole



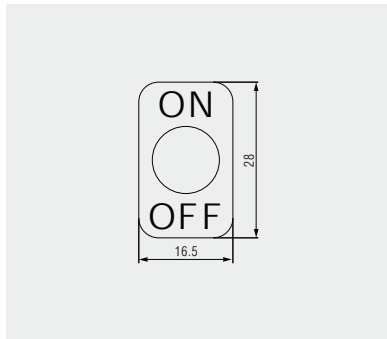
Quick-connect terminal 4.8 x 0.8 basic type 1822 and 1824



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"

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SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH IN DRIVE

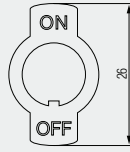


SERIES 1820 - SINGLE AND DOUBLE-POLE TOGGLE SWITCHES

TO 6 (4) A 250 V AC



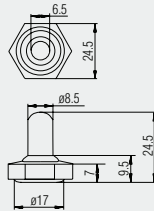
Identification plate
240.002.011



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



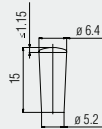
Protection cap
343.001.013 - green
343.001.023 - black
343.001.033 - red



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.



SERIES 0100 - SINGLE-POLE TOGGLE SWITCHES

TO 2 A 250 V AC



PRODUCT FEATURES

- Robust and powerful toggle switch with 50 000 mechanical switching cycles
- Central fastening with nut M12
- Metal or plastic lever

ON REQUEST

- Other terminal variants

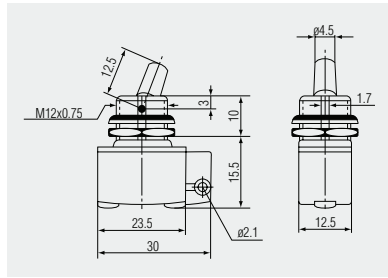
Mechanical life endurance	5E4
Material	actuator housing terminals
	metal / PA (product-dependent) CnZn nickel-plated / Duroplast (base) / chromated galvanized steel (bracket plate) silver plated

single-pole	Actuator color / printing	Housing color	2 A 250 V 1E3	Terminal type	Contact distance (mm)	Contact material	Miscellaneous	Stock version
ON / OFF switch (SPST)								
0100.1201			<input type="radio"/>		≥ 3	CuZn silver plated	actuating torque 45.0 ±14.0 Nmm	<input type="radio"/>
0100.2901			<input type="radio"/>		≥ 3	CuZn silver plated	actuating torque 45.0 ±14.0 Nmm metal lever	<input type="radio"/>



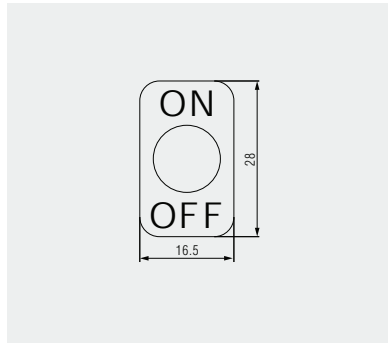
SERIES 0100 - SINGLE-POLE TOGGLE SWITCHES

TO 2 A 250 V AC



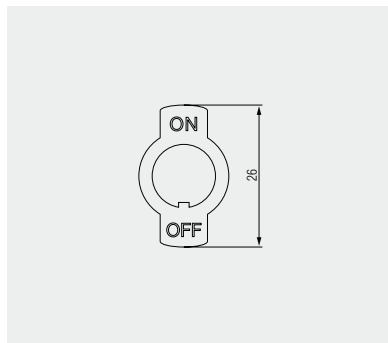
 Solder terminal

Basic type 0100



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

Identification plate
240.001.011



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

Identification plate
240.002.011

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