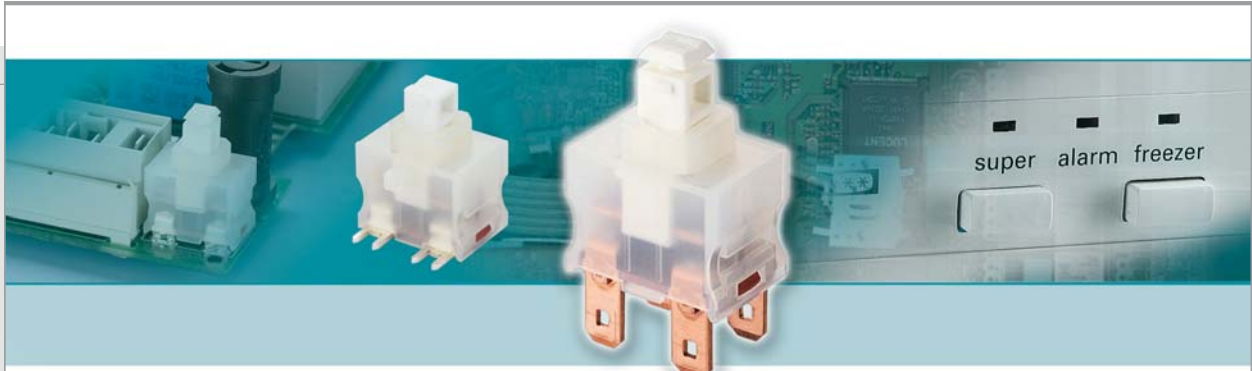


SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A / 12 (12) A 250 V AC



PRODUCT FEATURES

- ◆ Million times proven double lifting contact system with at least 100 000 mechanical switching cycles
- ◆ High electrical rating up to 16 A
- ◆ High mechanical load capacity up to 750 N (for foot actuation)
- ◆ Great variety
- ◆ Variable housing and pushbutton form with holders
- ◆ With pole separating wall (basic type 1689)

ON REQUEST

- ◆ Special plastics
- ◆ Other connection variants
- ◆ Customized actuators and housing contours
- ◆ Cable assembly
- ◆ Behind PCB mountable variants

































Mechanical life endurance	10E4
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 (actuator: V-0, socket: V-1, housing: V-2) UL 94 V-0 (product-dependent)
Heat and fire resistance	850 °C (category D)
Material	actuator PBTP / PA / PA glass fiber-reinforced (product-dependent) housing PA / PA glass fiber-reinforced (product-dependent) connections silver-plated / galvanically nickel-plated in plug area / tinned (product-dependent)
Plug force of the terminals	≤ 80 N
Approval marks	CE / UL / ENEC (product-dependent)
Suitable for appliances of protection class II	



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 38 Bishop Hollow Rd
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 610-359-1002

SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A / 12 (12) A 250 V AC

 single-pole	16 (4) A 250 V AC 1E4	12 (12) A 250 V AC 5E4	12 (12) A 250 V AC 1E4	12 (8) A 250 V AC 1E4	10 (8) A 250 V AC 5E4	16 A 125 - 250 V AC	12 A 125 - 250 V AC 1/2 HP	5 A 125 V AC L	Connection type	Connection description	Contact distance in mm	Contact material	Operating force in N	Free position (FP) max. in mm	Operating position (OP) in mm	Permissible total travel position (TP) in mm	EN 60335 cap. 30 conform "G"	Miscellaneous	Actuator description	Stock version
ON/OFF switch (SPST)																				
1681.2102	●					●			 vertical	≥ 3	Ag	7.0 ±2.5	26.5	23.8	22.2	●	resting pin			
1681.3104	●					●			 4.8 horizontal	≥ 3	Ag	7.0 ±2.5	26.5	23.8	22.2	●				
1681.4403	●					●			 horizontal	≥ 3	Ag	7.0 ±2.5	24	21.3	19.7	●	rest pin			
1681.4431	●			●		●			 5.3 horizontal	≥ 3	Ag	7.0 ±2.5	24	21.3	19.8		flange on the end faces			
1681.1101			●	●		●			 4.8 vertical	≥ 3	Ag	7.0 ±2.5	26.5	23.8	22.2				●	
1681.1702			●	●		●			 4.8 vertical	≥ 3	Ag	7.0 ±2.5	24	21.3	19.7	●				
1681.3101			●	●		●			 4.8 horizontal	≥ 3	Ag	7.0 ±2.5	26.5	23.8	22.2				●	
1681.3701			●	●		●			 4.8 horizontal	≥ 3	Ag	7.0 ±2.5	24	21.3	19.7					
1681.4402			●	●		●			 horizontal	≥ 3	Ag	7.0 ±2.5	24	21.3	19.7		rest pin		●	
1681.4701			●	●		●			 horizontal	≥ 3	Ag	7.0 ±2.5	24	21.3	19.7		resting pin			
1681.5701									 horizontal	≥ 3	Ag	7.0 ±2.5	24	21.3	19.7					
Normally closed contact (SPNC)																				
1681.9408		●		●					 horizontal	≥ 3	Ag	6.5 ±1.5	26.85	29.4	22.8		resting pin			
Normally open contact (SPNO)																				
1681.1202	●					●			 4.8 vertical	≥ 3	Ag	7.0 ±2.5	26.5	23.8	22.2	●				
1681.1304	●					●			 4.8 vertical	≥ 3	Ag	7.0 ±2.5	24	≤ 21.3	19.8	●				
1681.1354	●					●			 4.8 vertical	≥ 3	Au	7.0 ±2.5	24	≤ 21.3	19.7	●				
1681.3501			●	●		●			 4.8 horizontal	≥ 3	Ag	7.0 ±2.5	24	21.3	19.7					

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES



FOOT SWITCHES

POWER TOOL SWITCHES

TACT AND KEY SWITCHES

SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A / 12 (12) A 250 V AC

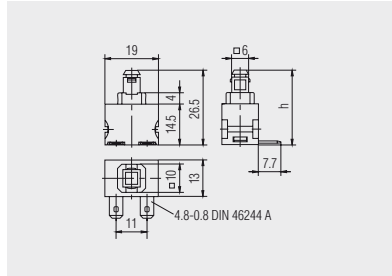
 double-pole	16 (4) A 250 V AC 1E4	12 (12) A 250 V AC 5E4	12 (12) A 250 V AC 1E4	12 (8) A 250 V AC 1E4	10 (8) A 250 V AC 5E4	16 A 125 - 250 V AC	12 A 125 - 250 V AC 1/2 HP	5 A 125 V AC L	Connection type	Connection description	Contact distance in mm	Contact material	Operating force in N	Free position (FP) max. in mm	Operating position (OP) in mm	Permissible total travel position (TP) in mm	EN 60335 cap. 30 conform "G"	Miscellaneous	Actuator description	Stock version
ON/OFF switch (DPST)																				
1682.7704	●					●			 6.3 vertical	≥ 3	Ag	9.0 ±3	24	21.3	19.7	●				
1689.1302	●			●	●	●			 4.8 vertical	≥ 3	Ag	9.0 ±3	24	≤ 20.95	19.7	●				
1689.3803	●	●		●	●	●			 4.8 horizontal	≥ 3	Ag	9.0 ±3	24	20.95	19.7	●	special housing contour			
1682.1101				●	●	●			 4.8 vertical	≥ 3	Ag	9.0 ±3	26.5	23.8	22.2				●	
1682.1702				●	●	●			 4.8 vertical	≥ 3	Ag	9.0 ±3	24	21.3	19.7	●				
1682.1802				●	●	●			 4.8 vertical	≥ 3	Ag	7.0 ±2.5	24	21.3	19.7					
1682.2701				●	●	●			 vertical	≥ 3	Ag	9.0 ±3	24	21.3	19.7					
1682.3101				●	●	●			 4.8 horizontal	≥ 3	Ag	9.0 ±3	26.5	23.8	22.2				●	
1682.6101				●	●	●			 180° angled	≥ 3	Ag	9.0 ±3	24	21.3	19.8					
Normally open contact (DPNO)																				
1689.4202	●			●	●	●			 horizontal	≥ 3	Ag	9.0 ±3	24	≤ 20.95	19.7	●	rest pin			
1682.1201				●	●	●			 4.8 vertical	≥ 3	Ag	9.0 ±3	26.5	23.8	22.2					
1682.1902				●	●	●	●		 4.8 vertical	≥ 3	Ag	9.0 ±3	28.8	26.1	24.5		with cap 205.021.011			
1682.3201				●	●	●			 4.8 horizontal	≥ 3	Ag	9.0 ±3	26.5	23.8	22.2					
1682.3702				●	●	●			 4.8 horizontal	≥ 3	Ag	7.0 ±2.5	26.5	23.8	22.2	●				

SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

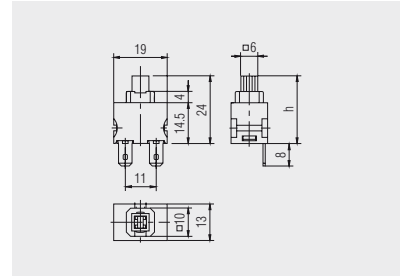
TO 16 (4) A / 12 (12) A 250 V AC



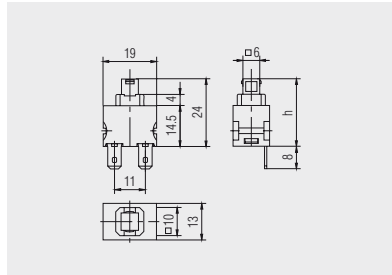
Basic type 1681
single-pole



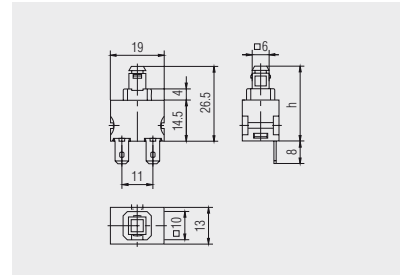
Quick-connect terminal 4.8 horizontal
(standard actuator)



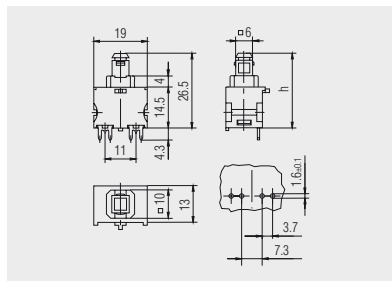
Quick-connect terminal 4.8 vertical
(actuator with holder for
different caps)



Quick-connect terminal 4.8 vertical
(shortened actuator)



Quick-connect terminal 4.8 vertical
(standard actuator)



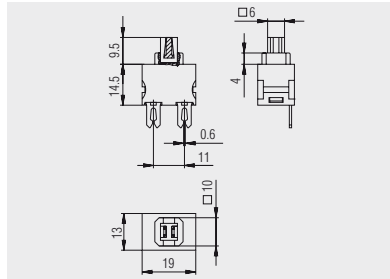
PCB terminal vertical
(standard actuator)

SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

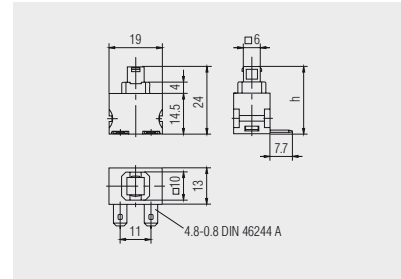
TO 16 (4) A / 12 (12) A 250 V AC



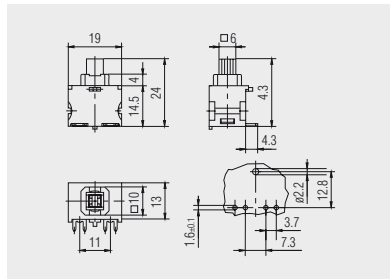
Basic type 1681
single-pole



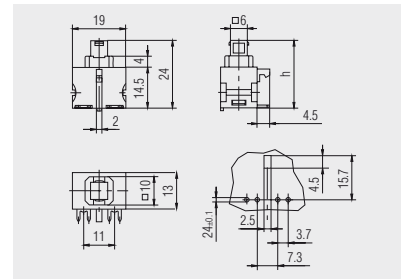
Cut terminal
(actuator with holder for
different caps)



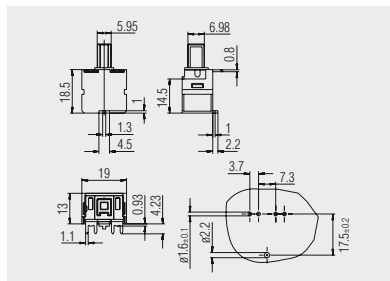
Quick-connect terminal 4.8 horizontal
(shortened actuator)



PCB terminal horizontal
(actuator with holder for
different caps)



PCB terminal horizontal
(shortened actuator)



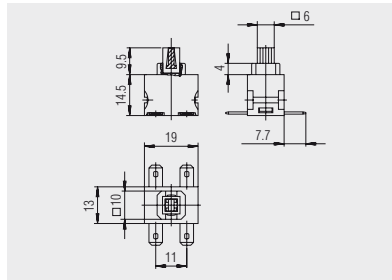
PCB terminal horizontal
1681.9408 normally closed contact
SPNC (actuator with holder for
different caps)

SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

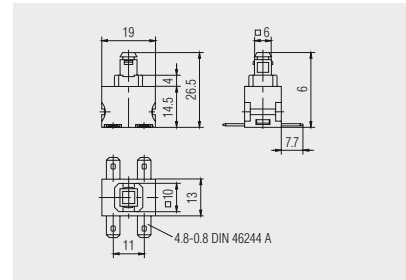
TO 16 (4) A / 12 (12) A 250 V AC



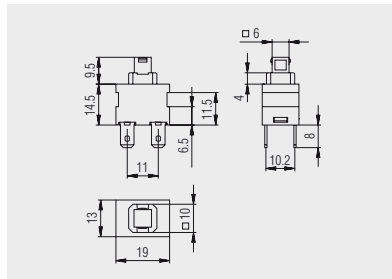
Basic types 1682 and 1689 double-pole



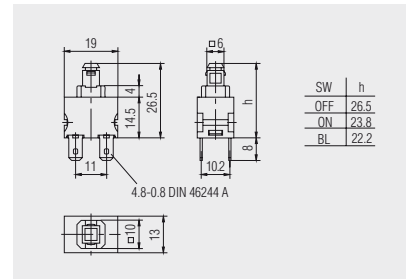
Quick-connect terminal 4.8 horizontal (actuator with holder for different caps)



Quick-connect terminal 4.8 horizontal (standard actuator)

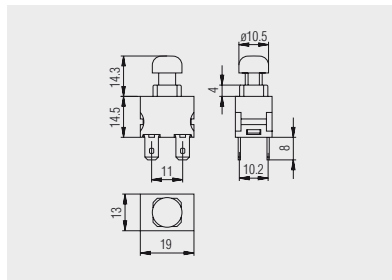


Quick-connect terminal 4.8 vertical (shortened actuator)

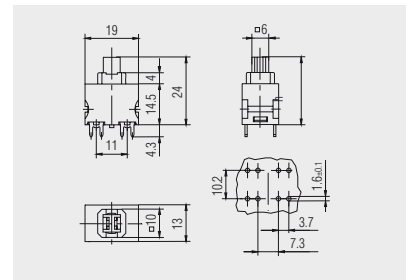


Quick-connect terminal 4.8 vertical (standard actuator)

SW	h
OFF	26.5
ON	23.8
BL	22.2



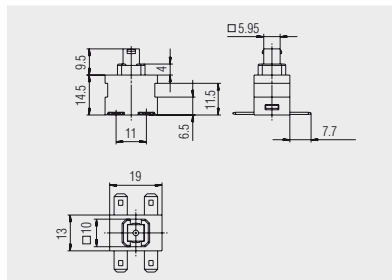
Quick-connect terminal 4.8 vertical (with mounted cap)



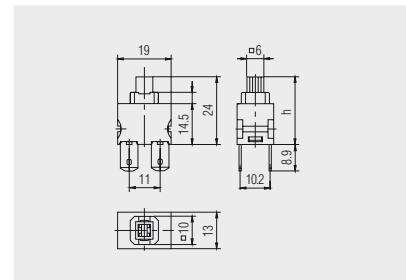
PCB terminal vertical (actuator with holder for different caps)



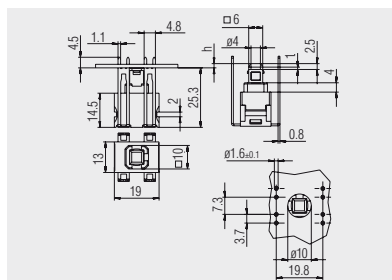
Basic types 1682 and 1689 double-pole



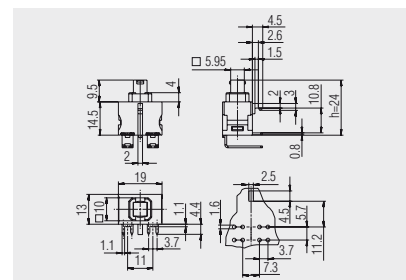
Quick-connect terminal 4.8 horizontal (shortened actuator without cut-out)



Quick-connect terminal 6.3 vertical (actuator with holder for different caps)



PCB terminal 180° angled (shortened actuator)



PCB terminal horizontal (shortened actuator without cut-out)

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