



SERIES 1680

Single and double-pole pushbutton switches to 16 (4) A / 12 (12) A 250 V AC



▶ PAGE
98 – 104

SERIES 1683

Single and double-pole pushbutton switches to 16 A 250 V AC

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



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105 – 108

SERIES 1691

Smallest single-pole pushbutton switches for low voltages



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109

SERIES 1247

Double-pole pushbutton switches to 7 (7) A 250 V AC



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110 – 111

SERIES 5000

Round pushbutton switches for at least 200 000 mechanical switching cycles

Appliance cut-out: Ø 16.0 mm



▶ PAGE
112 – 113

SERIES 1846

Single-pole pushbutton switches to 2 (1) A 250 V AC

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



▶ PAGE
114 – 115

SERIES 1840

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

Appliance cut-out: Ø 12.0 mm



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116 – 119



SERIES 1660

Single and double-pole pushbutton switches to 16 (4) A 250 V AC

Appliance cut-out: 30.0 x 22.2 mm



▶ PAGE
120 – 123

SERIES 1670

Single and double-pole pushbutton switches to 16 (4) A 250 V AC

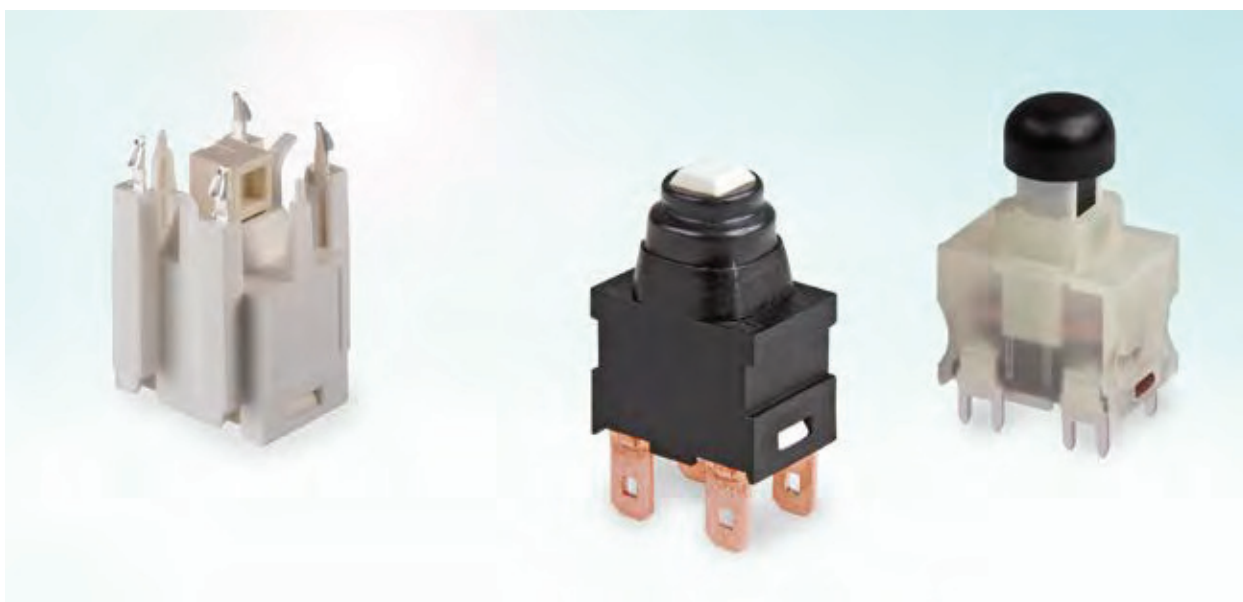
Appliance cut-out: 30.0 x 22.2 mm



▶ PAGE
124 – 128

➔ 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 terminal 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)
Proof tracking	250 PTI
Protection type	IP 40
Ambient temperature	terminal side -20 °C ... +100 °C ... +105 °C ... +125 °C (product-dependent) actuating side -20 °C ... +55 °C
Flammability	UL 94 (actuator: V-0, socket: V-1, housing: V-2) UL 94 V-0 (product-dependent)
Glow wire test temperature	850 °C
Material	actuator housing terminals
	PBTP / PA / PA (product-dependent) PA / PA glass fiber-reinforced / PA C3U / PA Latamid glass fiber-reinforced (product-dependent) silver plated / tinned / copper bare (product-dependent)
Plug force of the terminals	≤ 80 N
Approval marks	UL / VDE / IEC / CE (product-dependent)
Suitable for appliances of protection class II	



SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

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




























 single-pole	8 (8) A 250 V AC 1E4	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	Terminal type	Terminal description	Contact distance (mm)	Contact material	Operating force (N)	Free position (FP) max. (mm)	Operating position (OP) (mm)	Permissible total travel position (TP) (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	○	resting pin		
1681.4431			○			○		○			5.3 long 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												≥ 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)																					
1681.1354					○	○		○			4.8 vertical	≥ 3	Au	7.0 ±2.5	24	< 21.3	19.7	○	special housing contour		
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
 TACT AND KEY SWITCHES
 SNAP-ACTION SWITCHES
 MICRO-SIGNAL SWITCHES
 SENSORS
 ECO
 PUSH IN DRIVE



SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

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

 double-pole	8 (8) A 250 V AC 1E4	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	Terminal type	Terminal description	Contact distance (mm)	Contact material	Operating force (N)	Free position (FP) max. (mm)	Operating position (OP) (mm)	Permissible total travel position (TP) (mm)	Miscellaneous	Actuator description	Stock version
ON / OFF switch (DPST)																				
1682.7704	○					○					6.3 vertical	≥ 3	Ag	9.0 ± 3	24	21.3	19.7	○		
1689.3803	○		○		○		○				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	○		
1682.2701					○	○		○			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			
1682.3702					○	○		○			4.8 horizontal	≥ 3	Ag	9.0 ± 3	24	23.8	22.2	○		
1682.6101					○	○		○			180° angled	≥ 3	Ag	9.0 ± 3	24	21.3	19.8	○		
1682.6401	○										180° angled	≥ 3	Ag	10 ± 3	0.4 ± 0.3	2.3 ± 0.3	3.9 ± 0.3	○		
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			

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

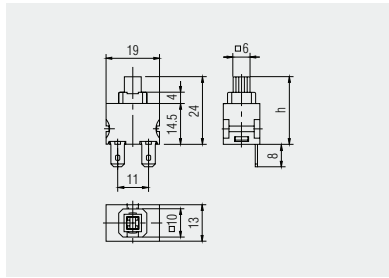


SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

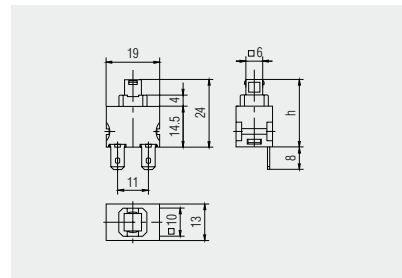
TO 16 (4) A / 12 (12) A 250 V AC



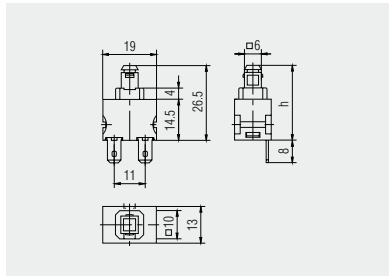
Basic type 1681
single-pole



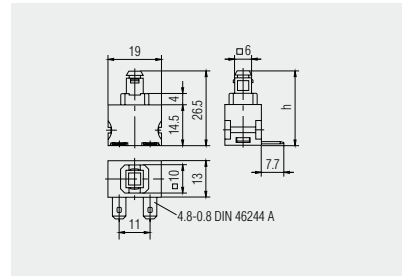
Quick-connect terminal 4.8 x 0.8
vertical
(actuator with holder for different caps)



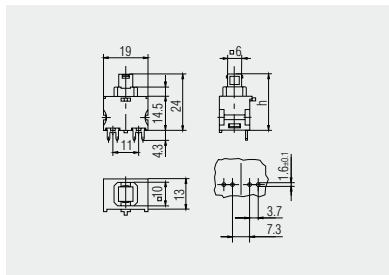
Quick-connect terminal 4.8 x 0.8
vertical (shortened actuator)



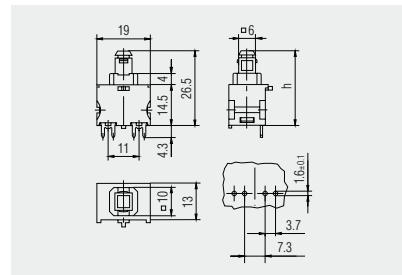
Quick-connect terminal 4.8 x 0.8
vertical (standard actuator)



Quick-connect terminal 4.8 x 0.8
horizontal (standard actuator)



PCB terminal vertical



PCB terminal vertical
(standard actuator)

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

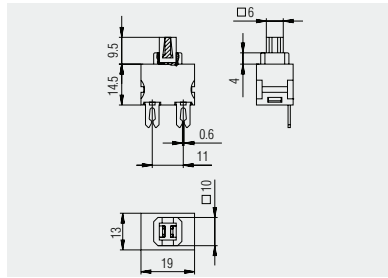


SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

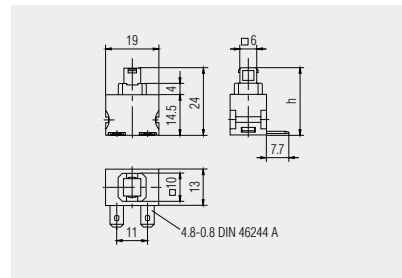
TO 16 (4) A / 12 (12) A 250 V AC



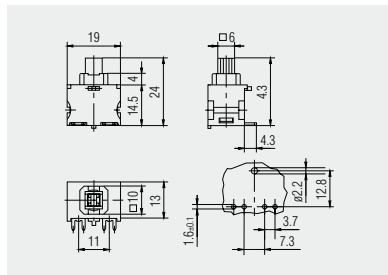
Basic type 1681
single-pole



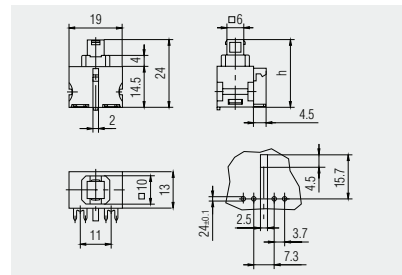
Cut terminal
(actuator with holder for different caps)



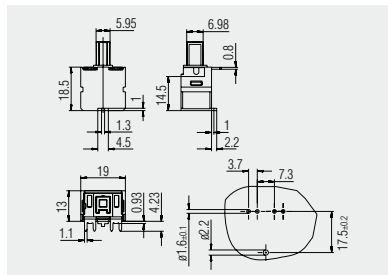
Quick-connect terminal 4.8 x 0.8
horizontal (shortened actuator)



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)

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

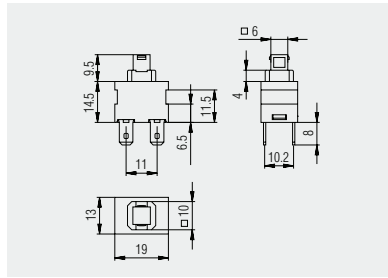


SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

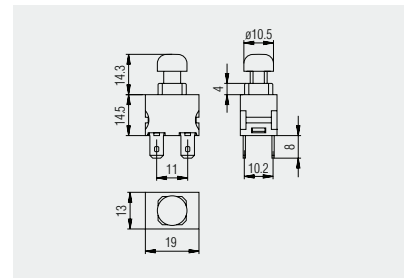
TO 16 (4) A / 12 (12) A 250 V AC



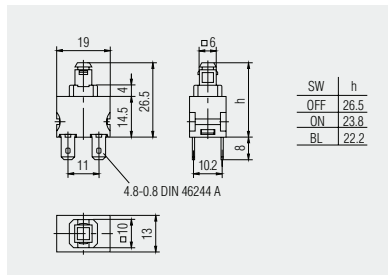
Basic types 1682 and 1689 double-pole



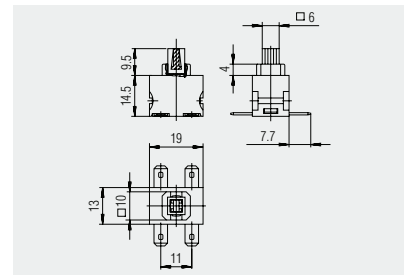
Quick-connect terminal 4.8 x 0.8 vertical (shortened actuator)



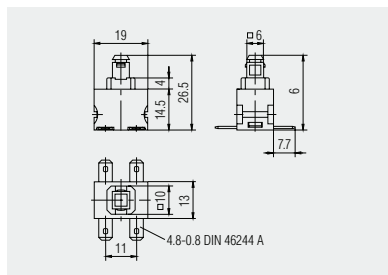
Quick-connect terminal 4.8 x 0.8 vertical (with mounted cap)



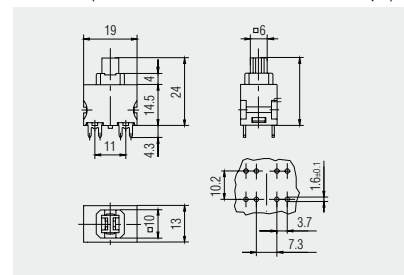
Quick-connect terminal 4.8 x 0.8 vertical (standard actuator)



Quick-connect terminal 4.8 x 0.8 horizontal (actuator with holder for different caps)



Quick-connect terminal 4.8 x 0.8 horizontal (standard actuator)



PCB terminal vertical (actuator with holder for different caps)

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

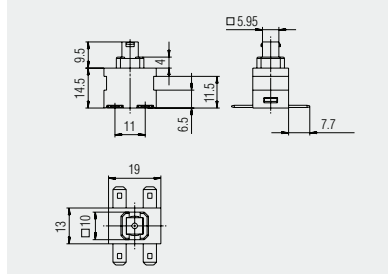


SERIES 1680 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

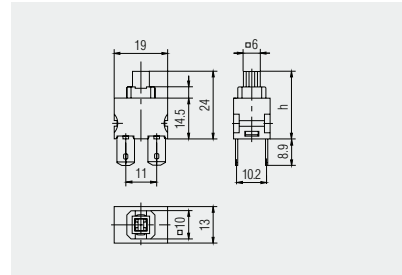
TO 16 (4) A / 12 (12) A 250 V AC



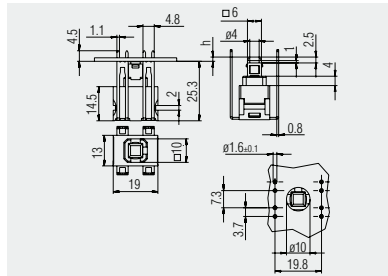
Basic types 1682 and 1689
double-pole



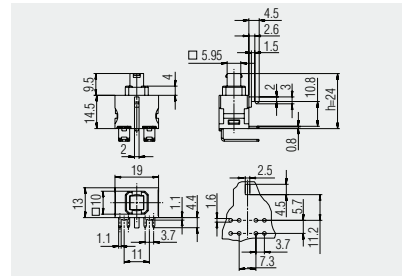
Quick-connect terminal 4.8 x 0.8
horizontal (shortened actuator
without cut-out)



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

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SLIDE SWITCHES

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SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH/DRIVE

➔ SERIES 1683 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 A 250 V AC



PRODUCT FEATURES

- ➔ Million times proven, double lifting contact system
- ➔ High electrical rating up to 16 A
- ➔ High rating with 100 000 mechanical switching cycles
- ➔ Illuminated and non-illuminated variants

ON REQUEST
















- ➔ Other colors
- ➔ Printing
- ➔ Other lamp variants
- ➔ Snap-on customized actuators
- ➔ Other terminal variants (e.g. 6.3 x 0.8 mm)
- ➔ Cable assembly
- ➔ Variant with dust and water protection












Mechanical life endurance	10E4
Operating force	approx. 8 N (basic type 1683) approx. 12 N
Contact resistance (new condition)	< 100 mOhm (1 A 12 V DC)
Insulation resistance (new condition)	> 100 MOhm (500 V DC)
Proof tracking	250 PTI
Ambient temperature	terminal 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
Glow wire test temperature	850 °C
Actuator	IP 40 IP 65 and IP 67 (product- dependent)
Material actuator housing	PC / EPDM / PA Latamid PA / PA glass fiber-reinforced / PA C3U / PA Latamid glass fiber-reinforced
Plug force of the terminals	≤ 80 N
Approval marks	
Suitable for appliances of protection class II	



SERIES 1683 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 A 250 V AC

 single-pole		Lighting voltage (V)	Actuator color / printing	16 (4) A 250 V AC 1E4	12 (8) A 250 V AC 1E4	10 (8) A 250 V AC 5E4	12 A 125 - 250 V AC 1/2 HP	Terminal type	Terminal description	Contact distance (mm)	Contact material	Free position (FP) max. (mm)	Operating position (OP) (mm)	Permissible total travel position (TP) (mm)	Actuator	Miscellaneous	Stock version
ON / OFF switch (SPST)																	
1686.1101	230		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	23.9	20.85	19.7	IP 40		
1686.8104	230		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	28	25	23.8	IP 65 and IP 67		
1683.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	23.9	20.85	19.7	IP 40		
1683.8101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	28	25	23.8	IP 65 and IP 67		
Normally open contact (SPNO)																	
1686.6155	24		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8 / 2 x 2.8	≥ 3	Au	23.9	20.85	19.7	IP 40	lamp terminal (2.8) external	
1683.1201			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	23.9	20.85	19.7	IP 40		<input type="radio"/>
1683.1802			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	23.5	20.45	19.3	IP 40		

 double-pole		Lighting voltage (V)	Actuator color / printing	16 (4) A 250 V AC 1E4	12 (8) A 250 V AC 1E4	10 (8) A 250 V AC 5E4	12 A 125 - 250 V AC 1/2 HP	Terminal type	Terminal description	Contact distance (mm)	Contact material	Free position (FP) max. (mm)	Operating position (OP) (mm)	Permissible total travel position (TP) (mm)	Actuator	Miscellaneous	Stock version
ON / OFF switch (DPST)																	
1687.1104	230		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	23.9	20.85	19.7	IP 40		<input type="radio"/>
1684.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	23.9	20.85	19.7	IP 40		
1684.1701			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	23.5	20.45	19.3	IP 40	snap-on actuator	
1684.1801			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	23.5	20.45	19.3	IP 40		
Normally open contact (SPNO)																	
1684.8202			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	28	25	23.8	IP 65 and IP 67		

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

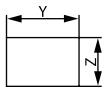


SERIES 1683 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 A 250 V AC

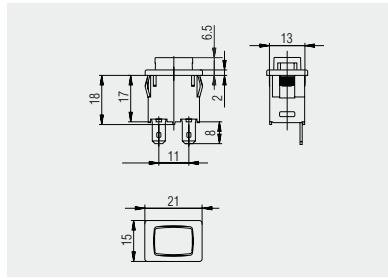


Basic type 1683
single-pole
non-illuminated

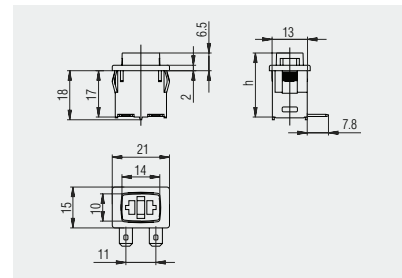


X = Wall thickness

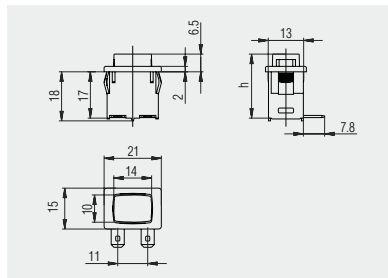
x	y	z
0.75 ... 1.25	19.2 ^{-0.1}	12.9 ^{+0.1}
1.25 ... 2	19.4 ^{-0.1}	12.9 ^{+0.1}
2 ... 3	19.8 ^{-0.1}	12.9 ^{+0.1}



Quick-connect terminal 4.8 x 0.8



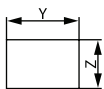
Quick-connect terminal 4.8 x 0.8
horizontal



Quick-connect terminal 4.8 x 0.8
horizontal

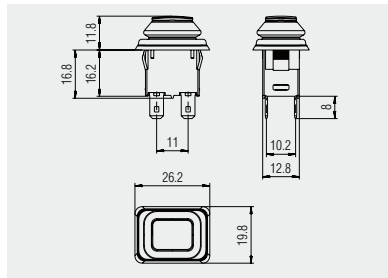


Basic types 1683, 1684,
1686 and 1687
single and double-pole
illuminated / non-illuminated



X = Wall thickness

x	y	z
1.0 ... 2.0	19.8 ^{-0.1}	12.9 ^{+0.1}



Quick-connect terminal 4.8 x 0.8
1686.8101 and 1683.8104 with
bellows for IP 65/IP 67

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

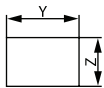


SERIES 1683 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 A 250 V AC

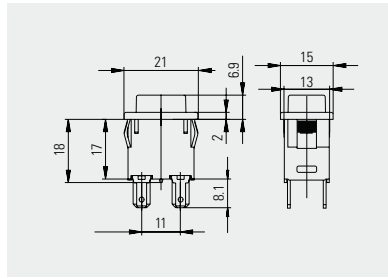


Basic types 1683, 1684, 1686 and 1687 single and double-pole illuminated / non-illuminated

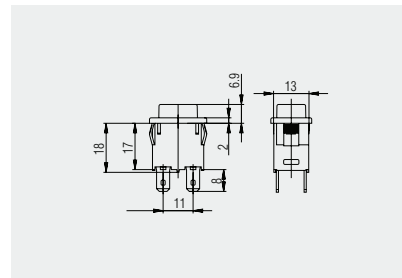


X = Wall thickness

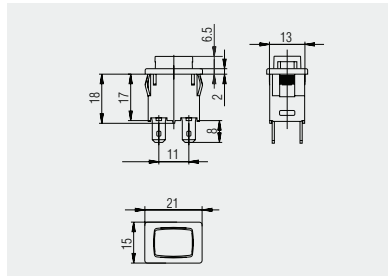
x	y	z
0.75 ... 1.25	19.2 ^{-0.1}	12.9 ^{+0.1}
1.25 ... 2	19.4 ^{-0.1}	12.9 ^{+0.1}
2 ... 3	19.8 ^{-0.1}	12.9 ^{+0.1}



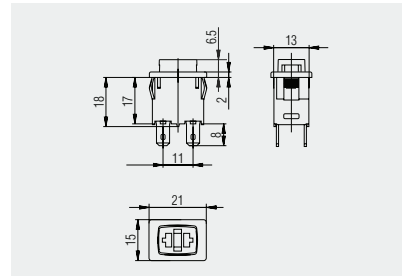
Quick-connect terminal 4.8 x 0.8 / 2 x 2.8 x 0.8 with external lamp 1686.6155



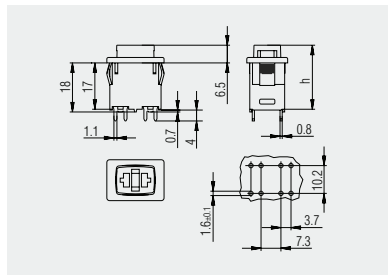
Quick-connect terminal 4.8 x 0.8 1684.1101, 1684.1104, 1684.1201, basic types 1687 and 1686



Quick-connect terminal 4.8 x 0.8 basic type 1684



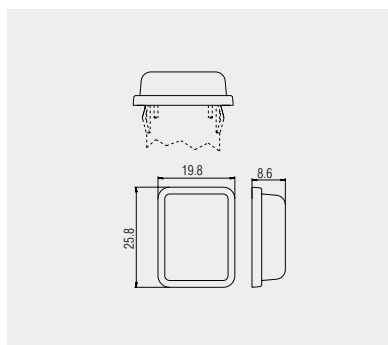
Quick-connect terminal 4.8 x 0.8 basic type 1684



PCB terminal vertical 1684.2701



Protection cap 203.701.011



Transparent PVC-protection cap for dust and water protection from the actuation side

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 1691 - SMALLEST SINGLE-POLE PUSHBUTTON SWITCHES

FOR LOW VOLTAGES

PRODUCT FEATURES


- Small compact pushbutton switch for indirect actuation
- High rating with 100 000 mechanical cycles
- Pushbutton snapping on customized actuators

ON REQUEST

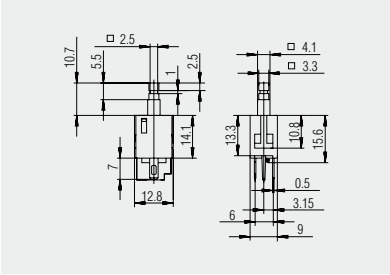
- For mains applications
- Customized actuators
- Different operating force

Mechanical life endurance	10E4
Operating force	6.0 ±1.0 N
Ambient temperature	terminal side -25 °C ... +70 °C
Material actuator housing terminals	PA PA silver plated

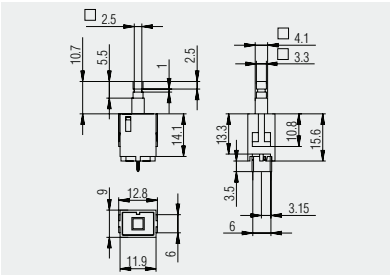
	Actuator color / printing	Housing color	5 mA 30 V	Terminal type	Terminal description	Contact distance (mm)	Contact material	Free position (FP) max. (mm)	Operating position (OP) (mm)	Permissible total travel position (TP) (mm)	Miscellaneous	Stock version
ON / OFF switch (SPST)												
1691.2101	■	■	○	U		< 3	Au	26.3	≤ 23.9	22.5		
Normally open contact (SPNO)												
1691.3201	■	■	○	U	2.8 x 0.5	< 3	Au	24.8	≤ 22.4	21		



Basic type 1691



Quick-connect terminal 2.8 x 0.5



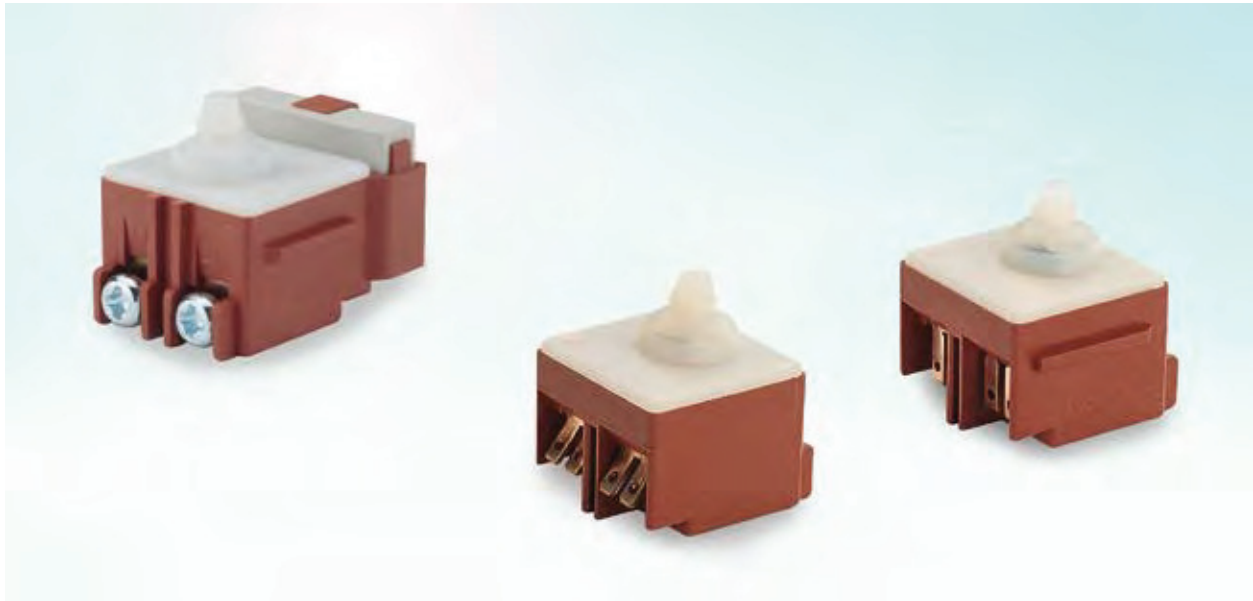
PCB terminal

ROCKER SWITCHES
PUSHBUTTON SWITCHES
TOGGLE SWITCHES
SLIDE SWITCHES
ROTARY SWITCHES
FOOT SWITCHES
TACT AND KEY SWITCHES
SMAP-ACTION SWITCHES
MICRO-SIGNAL SWITCHES
SENSORS
ECO
PUSH/IN/DRIVE



SERIES 1247 - DOUBLE-POLE PUSHBUTTON SWITCHES

TO 7 (7) A 250 V AC







PRODUCT FEATURES

- Powerful single and double-pole pushbutton switch up to 10 A 125 V AC
- Optionally with fastening strip and interference suppression capacitor
- Support point terminal (single-pole normally open contact)
- Dust-protected

ON REQUEST




- Other terminal types




Mechanical life endurance	1E5
Actuator	IP 40
Material actuator housing	PA glass fiber-reinforced Desmopan / PA glass fiber-reinforced
Approval marks	 /  /  / 
Suitable for appliances of protection class II	




SERIES 1247 - DOUBLE-POLE PUSHBUTTON SWITCHES

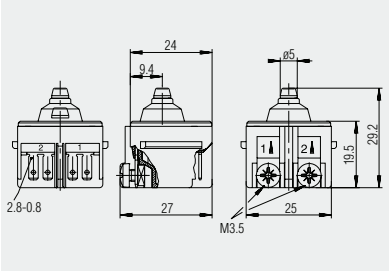
TO 7 (7) A 250 V AC


 single-pole	10 (10) A 127 V AC 5E4 7 (7) A 250 V AC 5E4 10 A 125 V AC 5 A 250 V AC				Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
	Normally open contact (SPNO)									
1247.0102	○	○	○	○		2 x M3.5 2 x St 2.8 angled 2 x St 2.8 angled	≥ 3	Ag	without strip	
1247.0301	○	○	○	○		2 x M3.5 2 x 2.8 x 0.8 2 x 2.8 x 0.8	≥ 3	Ag	with strip	

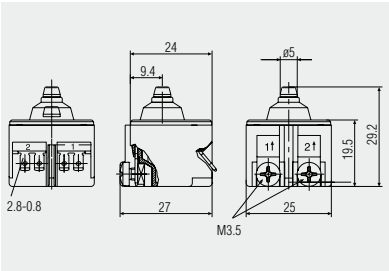
 double-pole	10 (10) A 127 V AC 5E4 7 (7) A 250 V AC 5E4 10 A 125 V AC 5 A 250 V AC				Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
	Normally open contact (DPNO)									
1247.2102	○	○	○	○		2 x M3.5 2 x St 2.8 angled 2 x St 2.8 angled	≥ 3	Ag	without strip without support terminal	
1247.2301	○	○	○	○		2 x M3.5 2 x 2.8 x 0.8 2 x 2.8 x 0.8	≥ 3	Ag	with strip without support terminal	




Basic type 1247



 Screw terminal mains side
Quick-connect terminal motor side
Quick-connect terminal additional connection with strip
1247.0301 and 1247.2301



 Screw terminal mains side
Quick-connect terminal motor side
Quick-connect terminal additional connection without strip
1247.2102 and 1247.0102

ROTARY 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 5000 - ROUND PUSHBUTTON SWITCHES

FOR AT LEAST 200 000 MECHANICAL SWITCHING CYCLES






PRODUCT FEATURES

- Attractive, round pushbutton switch
- Efficient contact system at least 200 000 mechanical switching cycles
- Variants with sealing cap for IP 54 dust and water protection
- Appliance cut-out with diameter 16 mm, alternatively with fixing pin

ON REQUEST




















- Other colors
- Actuator printing
- Snap-on for greater wall thickness
- Cable assembly


Mechanical life endurance	20E4
Proof tracking	250 PTI
Protection type	IP 40 IP 54 (in variants with sealing cap)
Ambient temperature	terminal side -20 °C ... +85 °C actuating side -20 °C ... +55 °C
Flammability	UL 94 V-2
Glow wire test temperature	850 °C
Material actuator housing terminals	PA glass fiber-reinforced PA glass fiber-reinforced silver plated
Type of fastening	Snap fastening
Plug force of the terminals	≤ 64 N
Approval marks	 /  / 
Suitable for appliances of protection class II	



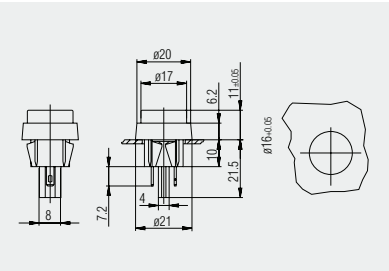
SERIES 5000 - ROUND PUSHBUTTON SWITCHES


FOR AT LEAST 200 000 MECHANICAL SWITCHING CYCLES

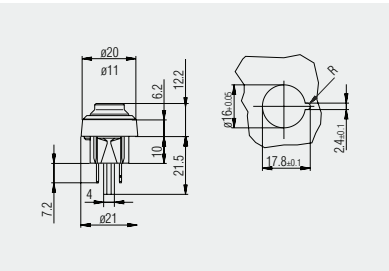
 single-pole	Actuator color / printing	Housing color	Terminal type	Terminal description	Contact distance (mm)	Contact material	Pretravel max. (mm)	Total travel / stroke (mm)	Miscellaneous	Stock version	
		4 (2) A 250 V AC 5E4	4 A 125 V AC 1/10 HP	2 A 250 V AC 1/10 HP							
Normally open contact (SPNO)											
5000.0101					2.8	Ag	2.0 ± 0.4	4.0		<input type="radio"/>	
5000.0103					2.8	Ag	2.0 ± 0.4	4.0		<input type="radio"/>	
5000.0104					2.8	Ag	2.0 ± 0.4	4.0		<input type="radio"/>	
5000.0211					2.8	Ag	2.0 ± 0.4	4.0	fixing pin	<input type="radio"/>	
5000.0212					2.8	Ag	2.0 ± 0.4	4.0	fixing pin	<input type="radio"/>	
5000.0501					2.8	Ag	2.0 ± 0.4	4.0	fixing pin with IP 54 sealing cap	<input type="radio"/>	




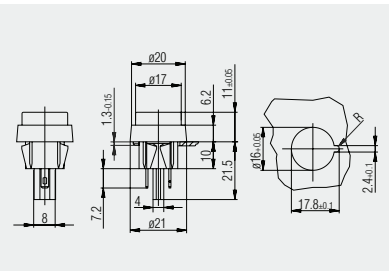
Basic type 5000




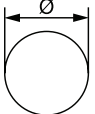
 Quick-connect terminal 2.8 x 0.8



 Quick-connect terminal 2.8 x 0.8 (with fixing pin and IP 54 sealing cap) 5000.0501



 Quick-connect terminal 2.8 x 0.8 (with fixing pin) 5000.0211 and 5000.0212



X = Wall thickness

x	Ø
1.4 ... 1-7	16.0 ^{+0.05}

ROTARY SWITCHES
 PUSHBUTTON SWITCHES
 TOGGLE SWITCHES
 SLIDE SWITCHES
 ROTARY SWITCHES
 FOOT SWITCHES
 TACT AND KEY SWITCHES
 MICRO-SIGNAL SWITCHES
 SNAP-ACTION SWITCHES
 SENSORS
 ECO
 PUSH IN DRIVE



SERIES 1846 - SINGLE-POLE PUSHBUTTON SWITCHES

TO 2 (1) A 250 V AC



PRODUCT FEATURES

- Small, compact pushbutton switch
- Long life endurance with 500 000 mechanical switching cycles
- Special design for dust and water protection

ON REQUEST

















- Other colors
- With printing
- Other terminal variants
- Cable assembly


Mechanical life endurance	50E4
Operating force	approx. 1 N ≤ 4.0 N (1846.0204)
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 ... +85 °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 / tinned
Bearing terminal	silver plated tinned
Plug force of the terminals	≤ 80 N
Approval marks	
Suitable for appliances of protection class II	



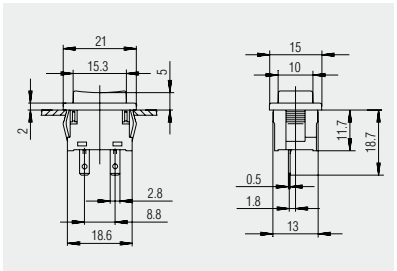
SERIES 1846 - SINGLE-POLE PUSHBUTTON SWITCHES


TO 2 (1) A 250 V AC

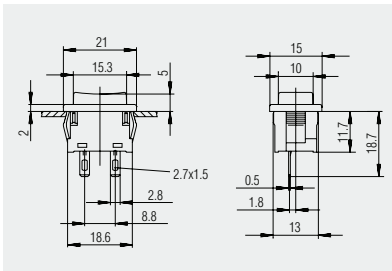
 single-pole	Actuator color / printing	Housing color	2 (1) A 250 V AC 5E4	30 mA 12 V DC 5E4	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version	
	Normally open contact (SPNO)										
	1846.0201			○			< 3	Ag			○
	1846.2201			○			< 3	Ag			
	1846.3201			○		2.8 x 0.5	< 3	Ag			○
	1846.2251			○			< 3	Au	electrical life endurance: 500 000		
1846.0204						< 3	Ag	switch actuating force 4 N			




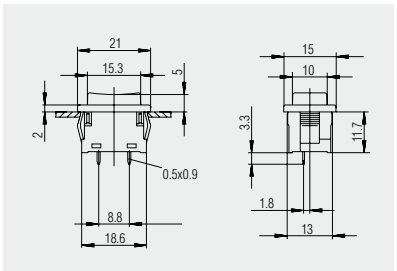
Basic type 1846




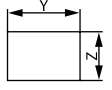
 Quick-connect terminal 2.8 x 0.5



 Solder terminal




 PCB terminal

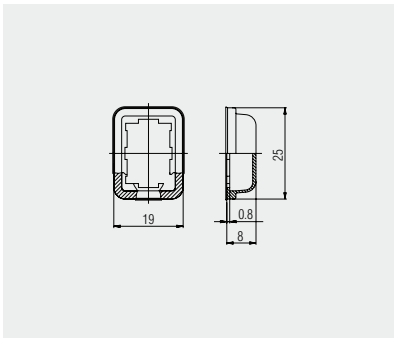


X = Wall thickness

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}



Protection cap
203.089.011



Transparent PVC-protection cap.
Serves as dust and water protection
for the actuating side.

ROTARY 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 1840 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 6 (4) A 250 V AC






PRODUCT FEATURES

- 100 million times proven switching principle with long life endurance with 100 000 mechanical switching cycles
- Fastening by round nut M12
- Excellent actuating characteristic
- Variant for snapping on customized pushbuttons

ON REQUEST




















- Higher power with 6 (6) A 250 V AC
- Other terminal types
- Cable assembly








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



SERIES 1840 - SINGLE AND DOUBLE-POLE PUSHBUTTON 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 5E4	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	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
	ON / OFF switch (SPST)												
1841.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		<input type="radio"/>
1841.6101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	snap-on actuator caps see page 119	
Normally closed contact (SPNC)													
1841.1301			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		<input type="radio"/>
Normally open contact (SPNO)													
1841.1201			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		<input type="radio"/>
Changeover switch (SPDT)													
1843.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		
Changeover switch (SPDT momentary)													
1843.1201			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		<input type="radio"/>

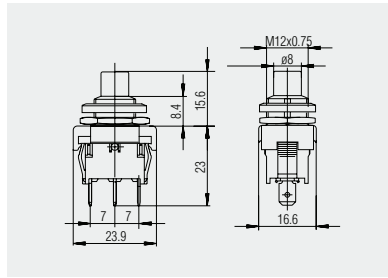
 double-pole	Actuator color / printing	Housing color	6 (4) A 250 V AC 5E4	6 (2) A 250 V AC 5E4	6 A 250 V AC 1/2 HP	6 A 125 V AC 1/4 HP	6 A 125 - 250 V AC 1/8 HP	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
	ON / OFF switch (DPST)												
1842.1101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag		
1842.6101			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4.8	≥ 3	Ag	snap-on actuator caps see page 119	

ROTARY 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



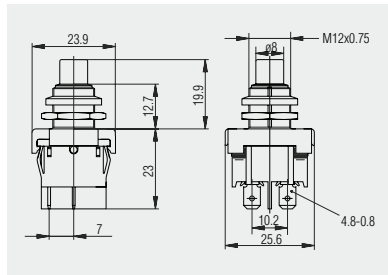
SERIES 1840 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 6 (4) A 250 V AC



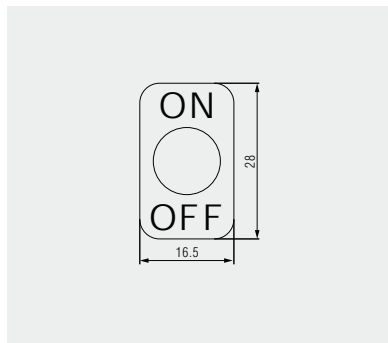
Basic types 1841 and 1843
single-pole

Quick-connect terminal 4.8 x 0.8



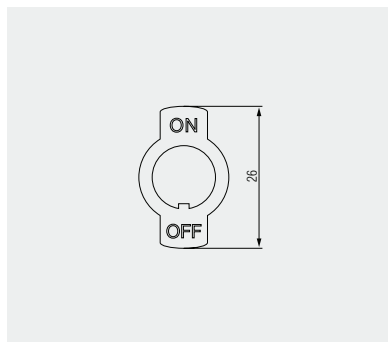
Basic type 1842
double-pole

Quick-connect terminal 4.8 x 0.8



Identification plate
240.001.011

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



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"

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

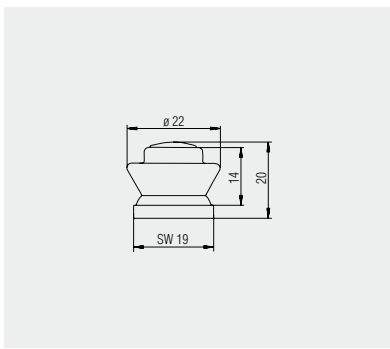

ECO

PUSH'N'DRIVE



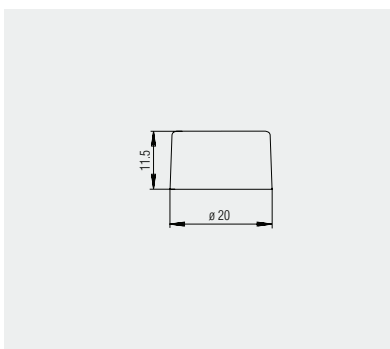

SERIES 1840 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 6 (4) A 250 V AC



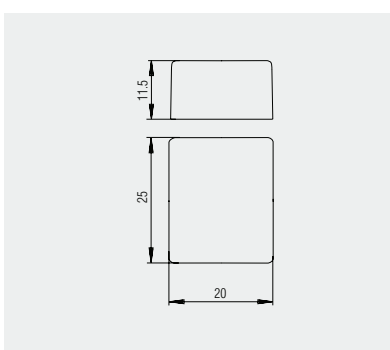

Neopren®-cap for pushbutton (M12 x 0.75) basic type 1840 as dust and water protection. Pushbutton plate on top of cap is CuZn nickel plated.

Protection cap
343.002.023



Pushbutton made of PA black, with diameter 20 mm for assembly by customer on 1841.6101 and 1842.6101

Pushbutton
205.008.011



Pushbutton made of PA black, rectangular 20 x 25 mm for assembly by customer on 1841.6101 and 1842.6101

Pushbutton
203.106.011

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

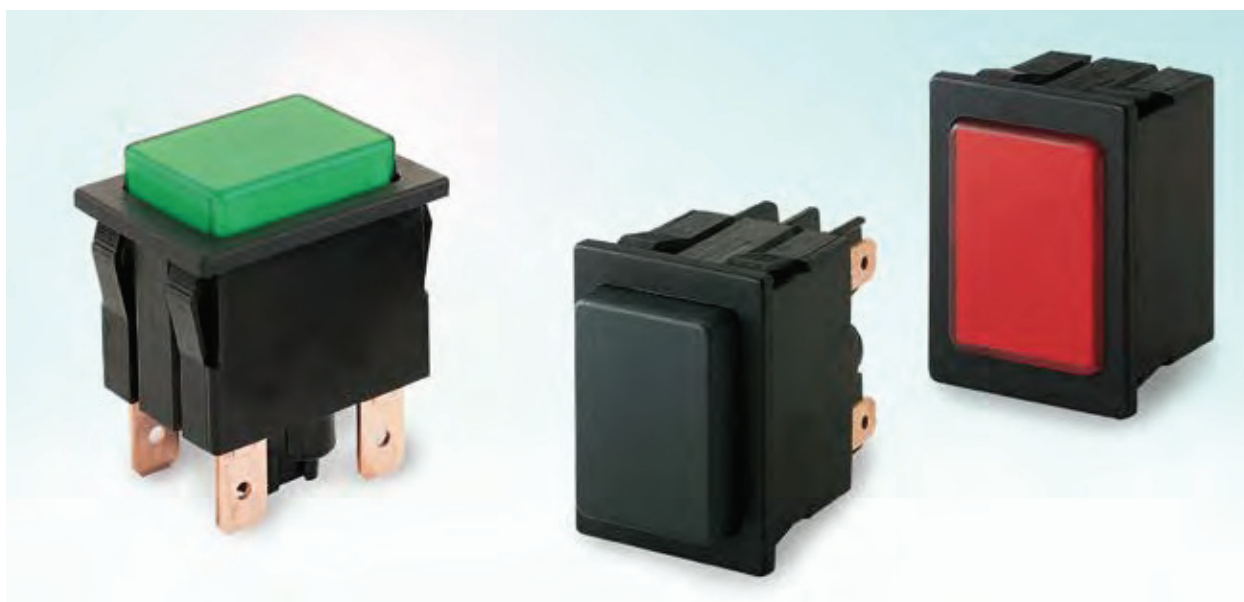
SENSORS

ECO

PUSH IN/DRIVE

➔ SERIES 1660 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A 250 V AC



PRODUCT FEATURES

- ➔ Illuminated and non-illuminated pushbutton switches
- ➔ Proven jump contact switching system (double interrupting)
- ➔ Opening and closing speed independent of the actuating speed
- ➔ Product-dependent with external lamp terminal

ON REQUEST


- ➔ Other colors
- ➔ Other printing variants
- ➔ Other terminal types
- ➔ Other lamp 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 ... +85 °C actuating side -20 °C ... +55 °C
Flammability	UL 94 V-2
Glow wire test temperature	850 °C
Material actuator housing terminals	PC (product-dependent) / PA PA / PA glass fiber-reinforced (product-dependent) Cu
Plug force of the terminals	≤ 80 N
Approval marks	⚡ / ⚡ / ⚡ (product-dependent) / ⚡
Suitable for appliances of protection class II	



SERIES 1660 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A 250 V AC

 single-pole		Lighting voltage (V)	Actuator color / printing	Housing color	16 (4) A 250 V AC 1E4	16 (4) A 250 V AC	12 (4) A 250 V AC 1E4	12 A 250 V AC 1/2 HP	12 A 125 V AC 1/6 HP	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
ON / OFF switch (SPST)															
1662.0201					o						6.3	≥ 3	Ag		
Normally open contact (SPNO)															
1665.3102	230			o							6.3 / 2 x 4.8	≥ 3	Ag	external lamp terminal	
1662.0101					o						6.3	≥ 3	Ag		o
Changeover switch (SPDT momentary)															
1664.0101						o					4.8	< 3	Ag		






 double-pole		Lighting voltage (V)	Actuator color / printing	Housing color	16 (4) A 250 V AC 1E4	16 (4) A 250 V AC	12 (4) A 250 V AC 1E4	12 A 250 V AC 1/2 HP	12 A 125 V AC 1/6 HP	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
ON / OFF switch (DPST)															
1660.0201	230			o							6.3	≥ 3	Ag		o
1660.0202	230			o							6.3	≥ 3	Ag		o
1660.3202	230			o							6.3 / 2 x 4.8	≥ 3	Ag	external lamp terminal	
1660.0222	110							o			6.3	≥ 3	Ag		
1661.0220						o	o	o			6.3	≥ 3	Ag		
Normally open contact (DPNO)															
1661.0101					o						6.3	≥ 3	Ag		o
Changeover switch (DPDT momentary)															
1663.0101						o					4.8	< 3	Ag		o

ROTARY 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



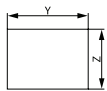
SERIES 1660 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A 250 V AC

	Lighting voltage (V)	Actuator color / printing	Housing color	16 (4) A 250 V AC 1E4	16 (4) A 250 V AC	12 (4) A 250 V AC 1E4	12 A 250 V AC 1/2 HP	12 A 125 V AC 1/6 HP	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
 Lamp														
Lamp														
1667.0101	230									6.3				
1667.0102	230									6.3				

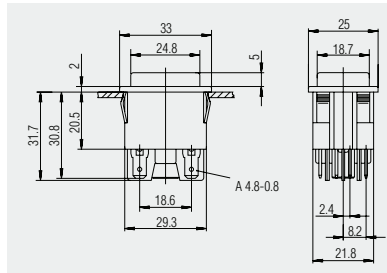


Basic types 1660, 1661 and 1663 double-pole illuminated / non-illuminated

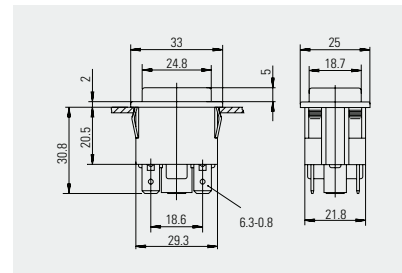



X = Wall thickness

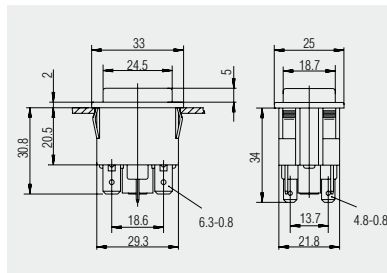
x	y	z
0.75 ... 1.0	30 ^{+0.1}	22.2 ^{+0.2}
1.0 ... 1.5	30.2 ^{+0.1}	22.2 ^{+0.2}
1.5 ... 3.0	30.4 ^{+0.1}	22.2 ^{+0.2}




 Quick-connect terminal 4.8 x 0.8



 Quick-connect terminal 6.3 x 0.8



 Quick-connect terminal 6.3 x 0.8 / 2 x 4.8 x 0.8 with external lamp terminal

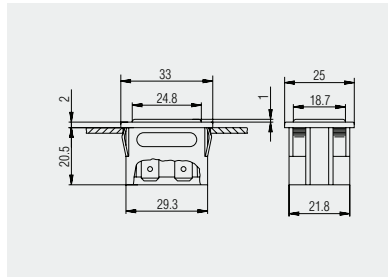


SERIES 1660 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

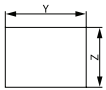
TO 16 (4) A 250 V AC



Basic type 1667 lamp



Quick-connect terminal 6.3 x 0.8

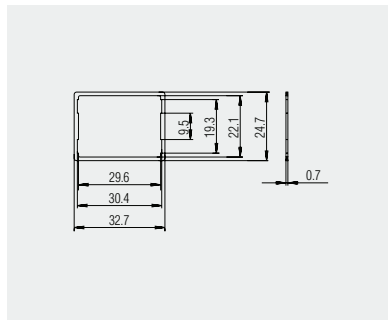


X = Wall thickness

x	y	z
0.75 ... 1.0	30 ^{+0.1}	22.2 ^{+0.2}
1.0 ... 1.5	30.2 ^{+0.1}	22.2 ^{+0.2}
1.5 ... 3.0	30.4 ^{+0.1}	22.2 ^{+0.2}



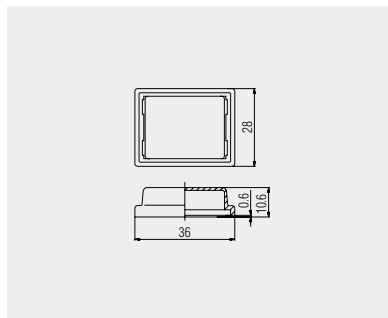
Gasket
340.040.011



Gasket made of EPDM black for sealing between switch and appliance for increased dust and water protection



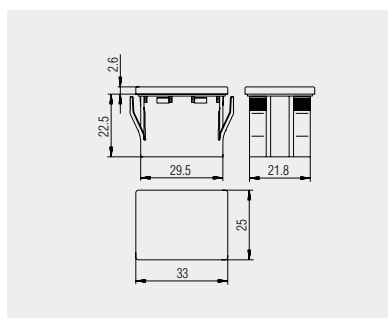
Protection cap
203.201.011



Transparent PVC-protection cap for switches of the basic types 1660, 1662, 1663, 1664, 1665 and 1667. Serves as dust and water protection of the actuation side.



Dummy piece
203.028.013



Dummy piece for size of basic type 1667 made of PA with housing and cover in black and with mounted gasket (340.040.011) for dust and water protection.

ROCKER SWITCHES
PUSHBUTTON SWITCHES
TOGGLE SWITCHES
SLIDE SWITCHES
ROTARY SWITCHES
FOOT SWITCHES
TACT AND KEY SWITCHES
SMAP-ACTION SWITCHES
MICRO-SIGNAL SWITCHES
SENSORS
ECO
PUSH IN/DRIVE

➔ SERIES 1670 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A 250 V AC




PRODUCT FEATURES

- ➔ Illuminated and non-illuminated pushbutton switch
- ➔ Internal gasket for IP 54
- ➔ Proven jump contact switching system (double interrupting)
- ➔ Opening and closing speed independent of the actuating speed
- ➔ Product-dependent with external lamp terminal

ON REQUEST














- ➔ Other colors
- ➔ Other printing variants
- ➔ Other terminal types
- ➔ Other lamp variants
- ➔ Cable assembly
- ➔ Approval mark UL



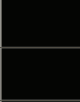



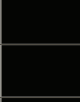




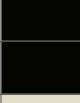


















Mechanical life endurance	5E4 1E4
Operating force	approx. 8 N
Contact resistance (new condition)	< 100 mOhm (1 A 12 V DC)
Insulation resistance (new condition)	> 100 MOhm (500 V DC)
Proof tracking	250 PTI
Protection type	IP 54
Ambient temperature	terminal side -20 °C ... +85 °C actuating side -20 °C ... +55 °C
Flammability	UL 94 V-2
Glow wire test temperature	850 °C
Material actuator housing terminals	PC (product-dependent) / PA PA / PA glass fiber-reinforced (product-dependent) Cu
Plug force of the terminals	≤ 80 N
Approval marks	
Suitable for appliances of protection class II	



SERIES 1670 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A 250 V AC

 single-pole		Lighting voltage (V)	Actuator color / printing	Housing color	16 (4) A 250 V AC 1E4	12 (4) A 250 V AC 1E4	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
Normally open contact (SPNO)												
1675.5315	230					6.3 / 2 x 4.8	≥ 3	Ag	external lamp terminals			
1672.5101						6.3	≥ 3	Ag				
Changeover switch (SPDT)												
1673.5501						4.8	< 3	Ag				










 double-pole		Lighting voltage (V)	Actuator color / printing	Housing color	16 (4) A 250 V AC 1E4	12 (4) A 250 V AC 1E4	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
ON / OFF switch (DPST)												
1670.5201	230					6.3	≥ 3	Ag				
1670.5202	230					6.3	≥ 3	Ag				
1670.5204	230					6.3	≥ 3	Ag				
1670.5203	115 - 230					6.3	≥ 3	Ag				
1671.5201						6.3	≥ 3	Ag				
1671.5203						6.3	≥ 3	Ag				
Normally open contact (DPNO)												
1671.5101						6.3	≥ 3	Ag				


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



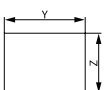
SERIES 1670 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A 250 V AC

 Lamp	Lighting voltage (V)	Actuator color / printing	Housing color	16 (4) A 250 V AC 1E4	12 (4) A 250 V AC 1E4	Terminal type	Terminal description	Contact distance (mm)	Contact material	Miscellaneous	Stock version
	1677.5306	230					6.3				
1677.5308	115 - 230					6.3					

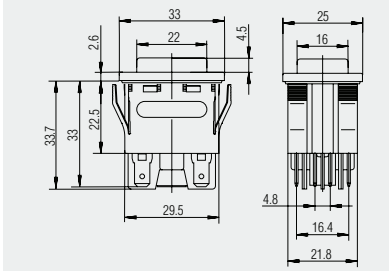



Basic types 1672, 1673 and 1675 single-pole illuminated / non-illuminated

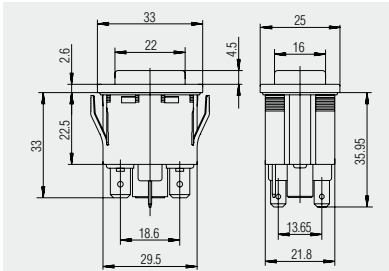



X = Wall thickness

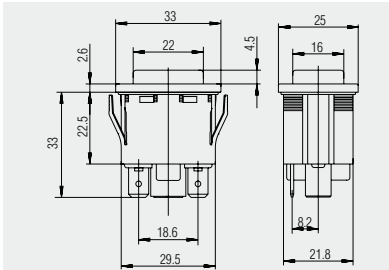
x	y	z
0.8 ... 5.0	30 ^{+0.15}	22.2 ^{+0.15}
0.8 ... 5.0	30 ^{+0.15}	22.2 ^{+0.15}




 Quick-connect terminal 4.8 x 0.8
1673.5501



 Quick-connect terminal 6.3 x 0.8 / 2 x 4.8 x 0.8 external lamp terminal
basic type 1675



 Quick-connect terminal 6.3 x 0.8
basic type 1672

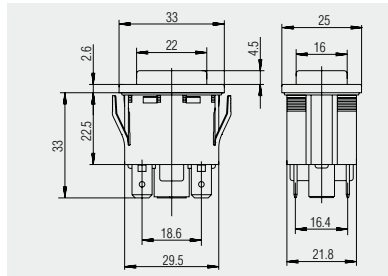


SERIES 1670 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

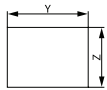
TO 16 (4) A 250 V AC



Basic types 1670 and 1671
double-pole
illuminated / non-illuminated



Quick-connect terminal 6.3 x 0.8

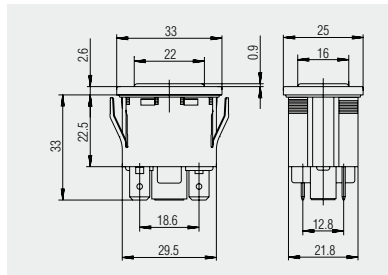


X = Wall thickness

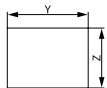
x	y	z
0.8 ... 5.0	30 ^{+0.15}	22.2 ^{+0.15}



Basic type 1677
lamp



Quick-connect terminal 6.3 x 0.8

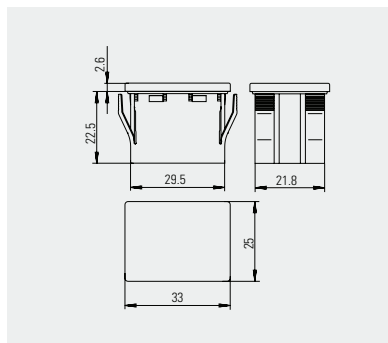


X = Wall thickness

x	y	z
0.8 ... 5.0	30 ^{+0.15}	22.2 ^{+0.15}



Dummy piece
203.020.013



Dummy piece for size of basic type 1677 made of PA with housing in black and cover in blue

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

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