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 connection

ON REQUEST

- Other colors
- Other printing variants
- Other connection types
- Other lamp variants
- Cable assembly

Mechanical life endurance		5E4
Operating force		ca. 8 N
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 54
Ambient temperature		connection side -20 °C ... +85 °C actuating side -20 °C ... +55 °C
Flammability		UL 94 V-2
Heat and fire resistance		850 °C (category D)
Material	actuator	PA / PC (product-dependent)
	housing	PA / PA glass fiber-reinforced (product-dependent)
	connections	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



	Voltage lamp in V	Actuator description	Housing color	16 (4) A 250 V AC 1E4	12 (4) A 250 V AC 1E4	Connection type	Connection description	Contact distance in mm	Contact material	Miscellaneous	Stock version
Normally open contact (SPNO)											
1675.5315	230			●			6.3 / 2 x 4.8	≥ 3	Ag	external lamp connection	
1672.5101				●			6.3	≥ 3	Ag		
Switch (SPDT)											
1673.5501					●		4.8	< 3	Ag		



double-pole



	Voltage lamp in V	Actuator description	Housing color	16 (4) A 250 V AC 1E4	12 (4) A 250 V AC 1E4	Connection type	Connection description	Contact distance in mm	Contact material	Miscellaneous	Stock version
ON/OFF switch (SPST)											
1670.5201	230			●			6.3	≥ 3	Ag		●
1670.5202	230			●			6.3	≥ 3	Ag		●
1670.5204	230			●			6.3	≥ 3	Ag		
1670.5304	230			●			6.3 / 2 x 4.8	≥ 3	Ag	external lamp connection	
1670.5203	115 - 230			●			6.3	≥ 3	Ag		
1671.5201				●			6.3	≥ 3	Ag		●
1671.5203				●			6.3	≥ 3	Ag	cover gray	
Normally open contact (SPNO)											
1671.5101				●			6.3	≥ 3	Ag		
1671.5104				●			6.3	≥ 3	Ag		

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TO 16 (4) A 250 V AC

 Lamp	Voltage lamp in V	Actuator description	Housing color	16 (4) A 250 V AC 1E4	12 (4) A 250 V AC 1E4	Connection type	Connection description	Contact distance in mm	Contact material	Miscellaneous	Stock version
Lamp											
1677.5306	230						6.3				
1677.5307	115 - 230						6.3				
1677.5308	115 - 230						6.3				

Further information under

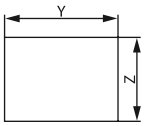
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SERIES 1670 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 16 (4) A 250 V AC

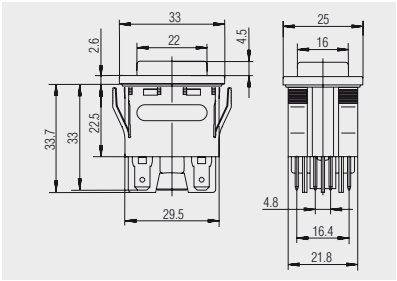


Basic types 1672, 1673 and 1675
single-pole
illuminated / non-illuminated

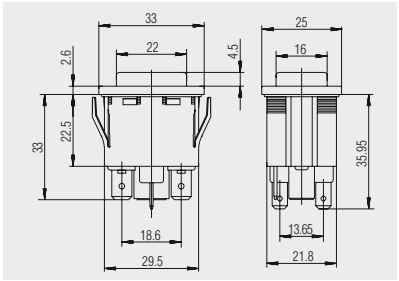


X = Wall thickness

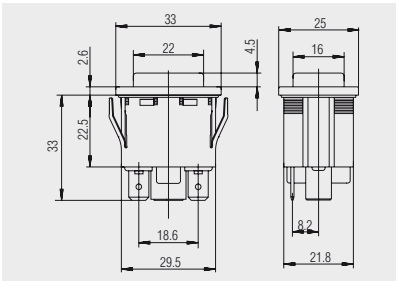
X	Y	Z
0.8 ... 5.0	30.0 $^{+0.15}$	22.2 $^{+0.15}$



Quick-connect terminal 4.8
1673.5501



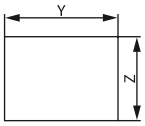
Quick-connect terminal 6.3 / 2 x 4.8
external lamp connection
basic type 1675



Quick-connect terminal 6.3
basic type 1672

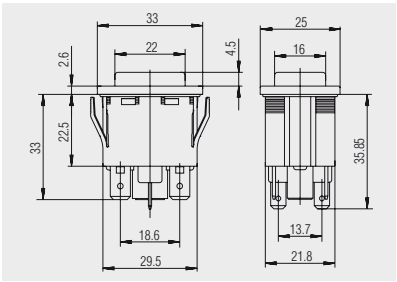


Basic types 1670 and 1671
double-pole
illuminated / non-illuminated

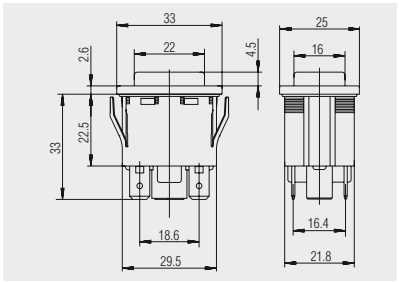


X = Wall thickness

X	Y	Z
0.8 ... 5.0	30.0 $^{+0.15}$	22.2 $^{+0.15}$



Quick-connect terminal 6.3 / 2 x 4.8
chromated external lamp
connection
1670.5304



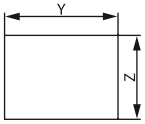
Quick-connect terminal 6.3
basic types 1670 and 1671

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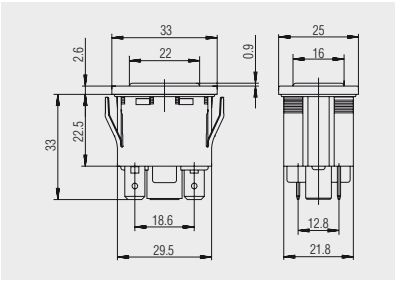


Basic type 1677
Lamp



X = Wall thickness

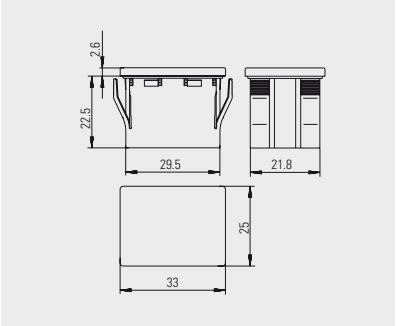
X	Y	Z
0.8 ... 5.0	30 +0.15	22.2 +0.15



Quick-connect terminal 6.3



Dummy piece
203.020.013



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

Further information under

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APPROVAL MARKS

	ENEC 05 (KEMA)		UL (USA)
	ENEC 10 (VDE)		UL (USA + Canada)
	VDE		CSA (Canada)
			CSA (Canada + USA)

TERMINAL SYMBOLS

	Quick-connect terminal		Cable
	Solder terminal		Terminal strip
	Short solder terminal		Push-in terminal
	PCB terminal		Snap-in terminal
	PCB terminal angled to left		Cut terminal
	PCB terminal angled to right		Screw terminal
	Socket terminal		

ACTUATOR SYMBOLS

	Straight lever		Lever simulated roller with adjusting screw
	Lever simulated roller		Lever with adjusting screw and roller
	Lever with roller		Lever with cams
	Differential lever		Housing cams
	Spring lever		Pushbutton
	Spring lever bent		Rotary shaft
	Spring lever with molded spring cam		Standard actuator
	Lever with adjusting screw		Mushroom-shaped actuator

ABBREVIATIONS TECHNICAL DRAWINGS

ad	Adjustable	**OP**	Operating position
AN	Anode	**OP NC**	Operating position normally closed contact
BL	Block	**OP NO**	Operating position normally open contact
FH	Fixing hole, locating hole fixing pin	**OR**	On request
FI	Fields for function indicator	**RC**	Recommended cut-out
FP	Free position	**RL**	Reference level
FX	Fixing pin	**SH**	Snap-in hole
ju	Adjusted	**SL**	Symbol limit
MC	Marking cathode	**SP**	Solder pads
MF	Mounting frame	**ST**	Slide travel
MP	Measuring point	**SW**	Switching position
OFF	Off	**TH**	Terminal hole
off-range	Zero position	**tk**	Thick
OG	Operating range	**to**	Top
ON	On	**TP**	Total travel position

SWITCHING FREQUENCY (ABBREVIATIONS)

e.g. 5E4 switching cycles ≙ **50 000** switching cycles