

# ➔ 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











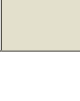


- ➔ Other colors
- ➔ Other printing variants
- ➔ Other terminal types
- ➔ Other lamp variants
- ➔ Cable assembly
- ➔ Approval mark UL































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



# 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  
 MICRO-SIGNAL SWITCHES  
 SMP-ACTION SWITCHES  
 SENSORS  
 ECO  
 PUSH-N-DRIE



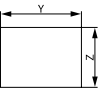
# SERIES 1670 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

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
	230						6.3				
1677.5306	115 - 230						6.3				

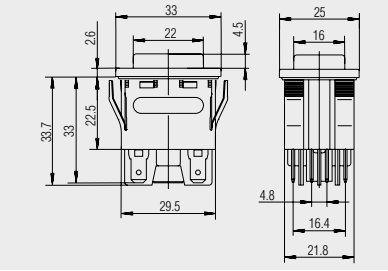



Basic types 1672, 1673 and 1675  
single-pole  
illuminated / non-illuminated

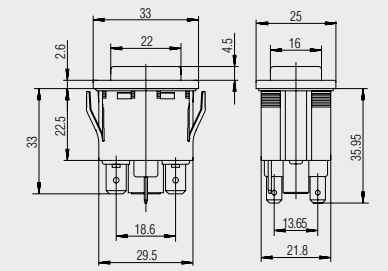



X = Wall thickness

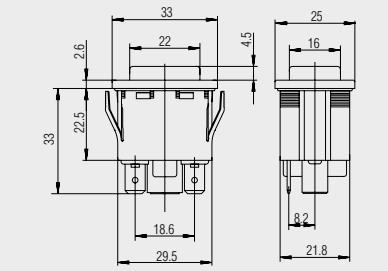
x	y	z
0.8 ... 5.0	30 <sup>+0.15</sup>	22.2 <sup>+0.15</sup>
0.8 ... 5.0	30 <sup>+0.15</sup>	22.2 <sup>+0.15</sup>




 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

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

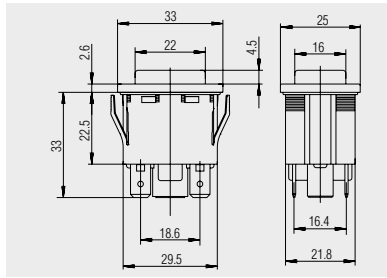


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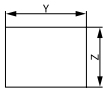
TO 16 (4) A 250 V AC



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



Quick-connect terminal 6.3 x 0.8

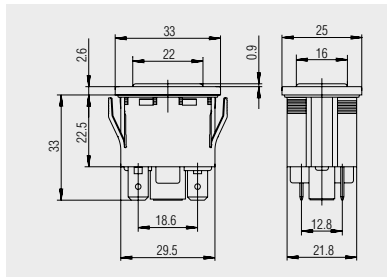


X = Wall thickness

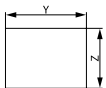
x	y	z
0.8 ... 5.0	30 <sup>+0.15</sup>	22.2 <sup>+0.15</sup>



Basic type 1677  
lamp



Quick-connect terminal 6.3 x 0.8

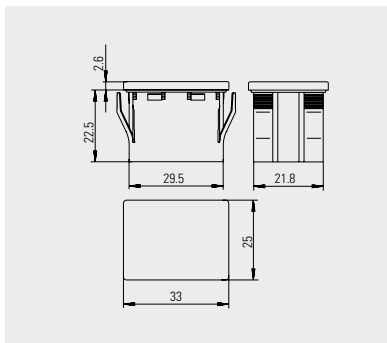


X = Wall thickness

x	y	z
0.8 ... 5.0	30 <sup>+0.15</sup>	22.2 <sup>+0.15</sup>



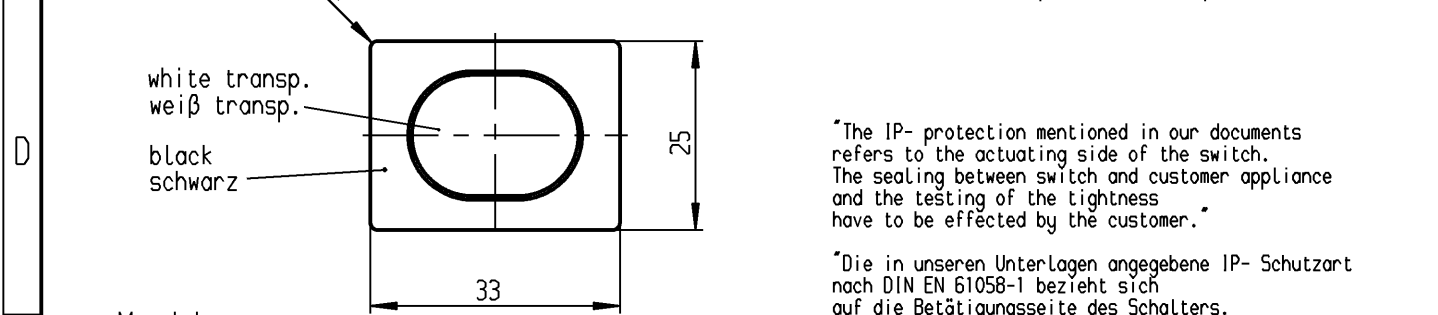
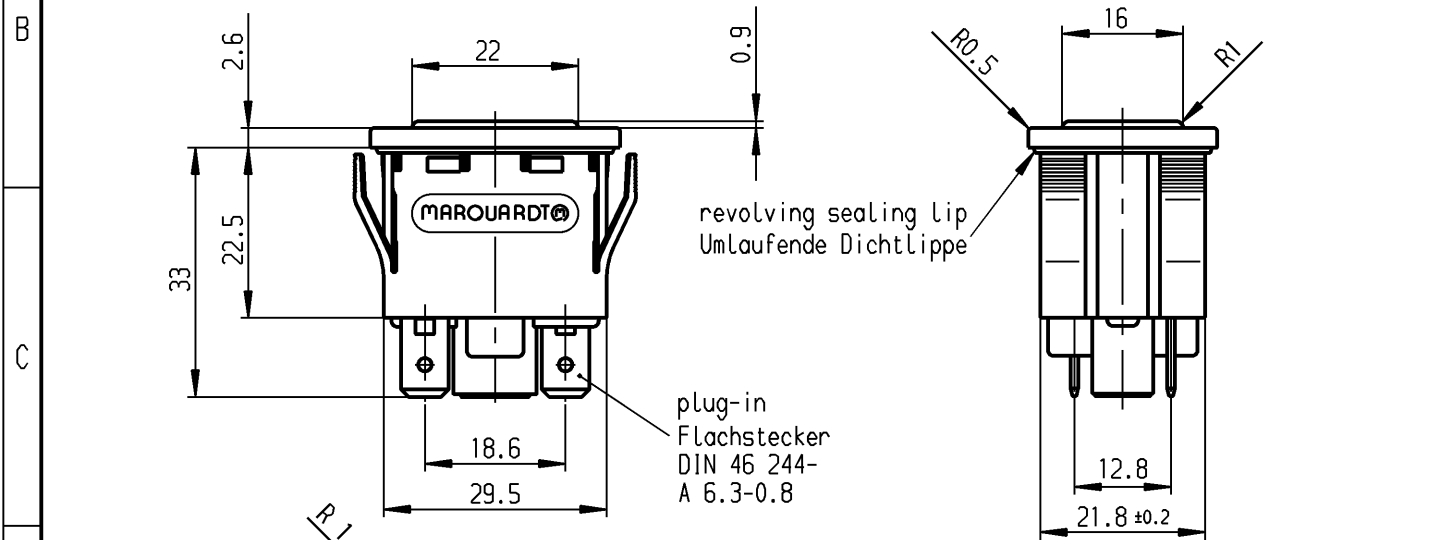
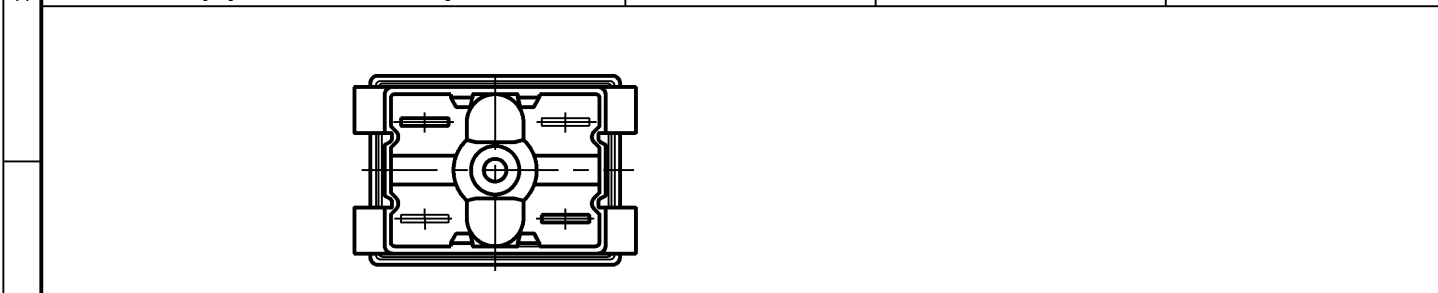
Dummy piece  
203.020.013



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  
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MICRO-SIGNAL SWITCHES  
SENSORS  
ECO  
PUSH'N'DRIVE

	1	2	3	4
	recommended cut-out for snap-in fixing (edge opposite to snap-in direction)	wall thickness Wanddicke	Length of cut-out Ausschnittlänge	width of cut-out Ausschnittbreite
A	Empfohlener Ausschnitt für Rastbefestigung (Grat gegenüber Bestückungsseite)	0.8 to/bis 5	30 +0.15	22.2 +0.15



Marking  
Aufschrift

MARQUARDT ©  
1677.  
230V ~ T85°C

date code of manufacture:  
year/week acc. to DIN EN 60062  
Herstelljahr/-woche nach DIN EN 60062

"The IP- protection mentioned in our documents refers to the actuating side of the switch. The sealing between switch and customer appliance and the testing of the tightness have to be effected by the customer."

"Die in unseren Unterlagen angegebene IP- Schutzart nach DIN EN 61058-1 bezieht sich auf die Betätigungsseite des Schalters. Die Abdichtung zwischen Schalter und Kundengerät, sowie die Prüfung auf Dichtheit an dieser Stelle hat durch den Kunden zu erfolgen."

**Pilot light / Leuchte**

Rubber seal between actuator and housing.  
Gummidichtung zwischen Betätiger und Gehäuse

neon lamp with Rv for 230 V AC  
Glimmlampe mit Rv für 230 V~

suitable for appliances of class II  
Für Geräte der Klasse II geeignet.

actuating side protected acc. to  
DIN 40 050, IP 54

Betätigungsseite geschützt  
entsprechend DIN 40 050, IP 54

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Für Form und Lage FOR SHAPE AND LOC.		Allgemeintoleranzen UNTOLERANCED DIMENSIONS		Pause COPY		Blatt SHEET		Typ		Zeichn./DRAWING NO.		Index	
Für Winkel FOR ANGLE ± 2°		PROJECTION		Laengen LENGTH		Original DIN		K		1677.5306			
Abmasse und Nennmassbereiche Angaben in mm		ALL DIMENSIONS ARE IN MILLIMETRES		Radien RADII		Maßstab SCALE 1:1		Z		Pilot light Leuchte		MARQUARDT Marquardt GmbH, D-78604 Rietheim-Weilheim	
0-6 ± 0.2		ALL DIMENSIONS ARE IN MILLIMETRES		± 0.2		A4							
>6-15 ± 0.4				± 0.4									
>15-30 ± 0.4				± 0.4									
>30-70 ± 0.6				± 0.6									
>70-120 ±				±									
>120-200 ±				± 10%									
c		g		0 10 20 30 mm		CAD Medusa							
b 36501 01.09.03 vor		f				gez./DRAWN BY 27.11.00 Mut							
a 32547 02.09.02 wj		e				gepr./CHECKED BY mej							
30741 27.11.00 Mut		d				Ersatz für/REPLACEMENT OF							
Ausg. ISSUE		gez. DRAWN BY		Ausg. ISSUE		Anderung REVISION		gez. DRAWN BY					