

## ➔ 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











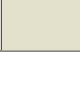


- ➔ Other colors
- ➔ Other printing variants
- ➔ Other terminal types
- ➔ Other lamp variants
- ➔ Cable assembly
- ➔ Approval mark UL




















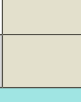



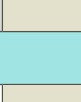






<b>Mechanical life endurance</b>	5E4 1E4
<b>Operating force</b>	approx. 8 N
<b>Contact resistance (new condition)</b>	< 100 mOhm (1 A 12 V DC)
<b>Insulation resistance (new condition)</b>	> 100 MOhm (500 V DC)
<b>Proof tracking</b>	250 PTI
<b>Protection type</b>	IP 54
<b>Ambient temperature</b>	terminal 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' DRIVE



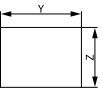
# SERIES 1670 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

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
	230						6.3				
1677.5306	115 - 230						6.3				

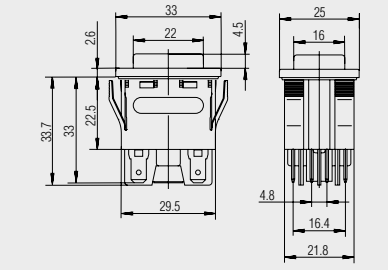



Basic types 1672, 1673 and 1675 single-pole illuminated / non-illuminated

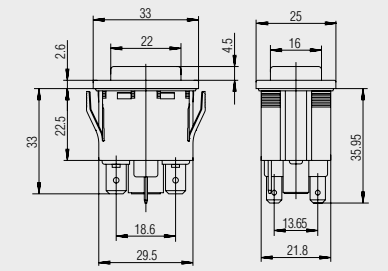



X = Wall thickness

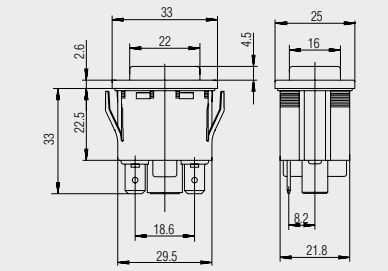
x	y	z
0.8 ... 5.0	30 <sup>+0.15</sup>	22.2 <sup>+0.15</sup>
0.8 ... 5.0	30 <sup>+0.15</sup>	22.2 <sup>+0.15</sup>




 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

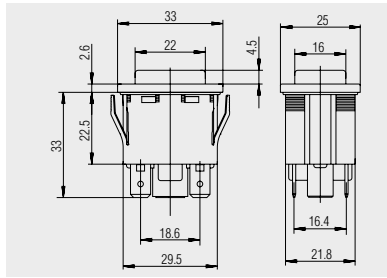


# SERIES 1670 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

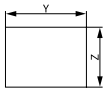
TO 16 (4) A 250 V AC



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



Quick-connect terminal 6.3 x 0.8

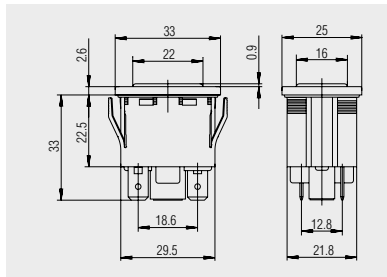


X = Wall thickness

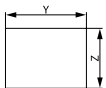
x	y	z
0.8 ... 5.0	30 <sup>+0.15</sup>	22.2 <sup>+0.15</sup>



Basic type 1677  
lamp



Quick-connect terminal 6.3 x 0.8

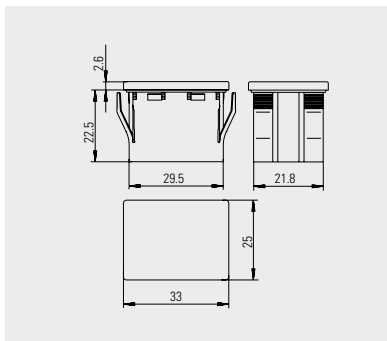


X = Wall thickness

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



Dummy piece  
203.020.013

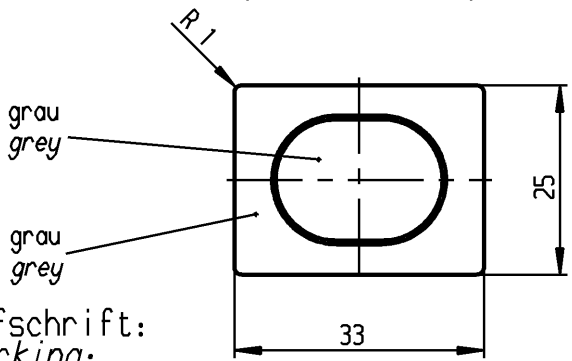
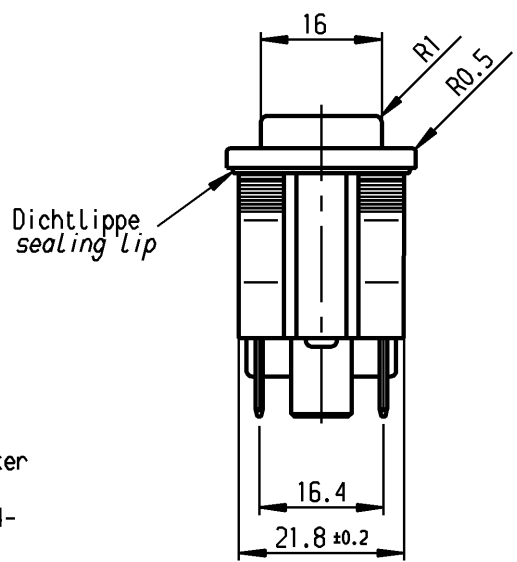
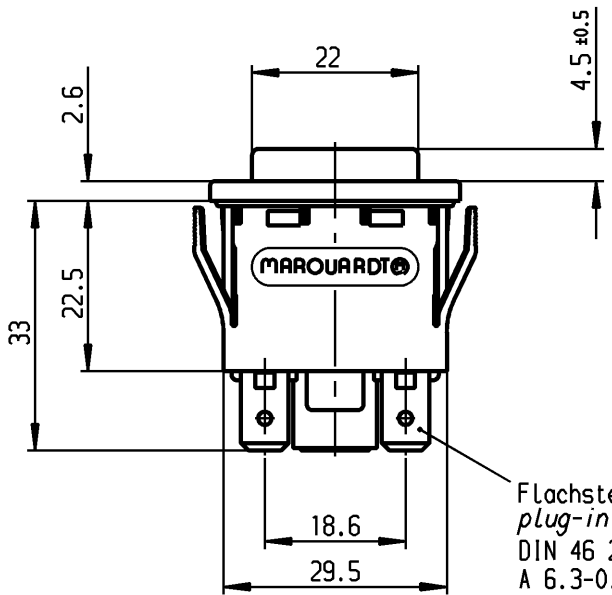
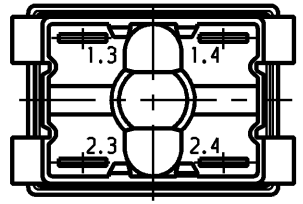


Dummy piece for size of basic type 1677 made of PA with housing in black and cover in blue

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TACT AND KEY SWITCHES  
SNAP-ACTION SWITCHES  
MICRO-SIGNAL SWITCHES  
SENSORS  
ECO  
PUSH'N'DRIVE

1	2	3	4
Empfohlener Ausschnitt fuer Rastbefestigung ( Grat gegenueber Bestueckungsseite ) <i>recommended cut-out for snap-in fixing ( edge opposite to snap-in direction )</i>		Wanddicke <i>wall thickness</i>	Ausschnittlaenge <i>length of cut-out</i>
		0.8 to bis / to 5.0	30 ± 0.15
			Ausschnittbreite <i>width of cut-out</i>
			22.2 ± 0.15

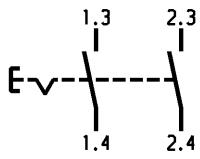
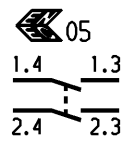
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"Die in unseren Unterlagen angegebene IP- Schutzart nach DIN EN 61058-1 bezieht sich auf die Betätigungsseite des Schalters. Die Abdichtung zwischen Schalter und Kundengerät, sowie die Prüfung auf Dichtigkeit an dieser Stelle hat durch den Kunden zu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

"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."

Aufschrift:  
 Marking:  
 MAROUARDT ©  
 1671.  
 16(4)/250 ~ T85/55



Herstellort/-jahr/-woche  
*code of manufacture: place/year/week*  
 Auf Verpackung / on box: 9526892

**Ausschalter 2-polig**

Gesamtweg 4 ± 0.4  
 Fuer Gerate der Klasse II geeignet.  
 Betaetigungsseite geschuetzt  
 entsprechend DIN 40 050, IP 54  
 DPST  
 total travel 4 ± 0.4  
 suitable for appliances of class II  
 actuating side protected acc. to  
 DIN 40 050, IP 54

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Für Form und Logo FOR SHAPE AND LOC.		FÜR WINKEL FOR ANGLE ± 2°		Allgemeintoleranzen UNTOLERANCED DIMENSIONS			Pause COPY	Blatt SHEET 01		Typ K	Zeichn./DRAWING NO. 1671.5203	Index e	
PROJECTION		Abmasse und Nennmassbereiche Angaben in mm			Laengen LENGTH	Radien RADII		Original DIN	Maßstab SCALE				
ALL DIMENSIONS ARE IN MILLIMETRES		0-6 ± 0.2			± 0.2	± 0.2	A4	1:1	Gerateschalter Appliance Switch CAD Medusa Z gez./DRAWN BY 10.03.97 RS gepr./CHECKED BY StL Ersatz für/REPLACEMENT OF <b>MARQUARDT</b> Marquardt, D-78604 Riethem-Weilheim				
c 32547 28.08.02 wj g			>6-15 ± 0.4 ±										
b 28173 11.10.99 Mut f			>15-30 ± 0.4 ±										
a 26325 16.07.98 BB e			>30-70 ± 0.6 ±										
Ausg. ISSUE			>70-120 ±										
Anderung REVISION			gez. DRAWN BY			0 10 20 30 mm							
Anderung REVISION			Ausg. ISSUE			Anderung REVISION							
gez. DRAWN BY			Ausg. ISSUE			Anderung REVISION							