

# OEM Relative and differential pressure switch type 605

Pressure range  
20 ... 400 Pa



Type 605 pressure switches are specially developed for use in gas fired heating systems. There are more than 40 million switches in use worldwide. Produced on a fully automated production line. High setting accuracy and repeatability, combined with excellent reliability characterise a quality of switch above the industry norm.

- Fitting of the switch
  - Fast mounting with snap bracket system
- Adjusting security
  - High contact strength (typically 10 cN) and self cleaning roll operation contact
  - Not susceptible to contact pollution
- Diaphragm design / material
  - Better long term stability achieved though the use of a 2 component silicon diaphragm.
  - Unique trapezoid diaphragm design provides for a better contact release and therefore a more accurate switching point

## Technical overview

### Pressure range

Relative and differential	20 ... 400 Pa <sup>1)</sup>
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### Operating conditions

Medium		Air and neutral gases
Temperature <sup>2)</sup>	Medium / ambient	-30 ... +110 °C
	Storage	-30 ... +110 °C
	< +85 °C	5000 Pa
Tolerable overload on one side	+85 ... +110 °C	1500 Pa
Smallest turn on pressure of 20 Pa <sup>3)</sup>		Smallest switching differential 8 Pa

### Materials in contact with the medium

Sensor	Silicone LSR
Case	PC Lexan 500R <sup>4)</sup>

### Electrical overview

Switching load		See Nominal loading limits
Contact system		Changeover switch
Service life	Mechanically	> 10 <sup>6</sup> switching cycles

### Protection standard

Not mounted	IP 00
With contact safety guard	IP 30
With cover, without seal	IP 54
With cover and seal	IP 65

### Reproducibility

Between	± 1 Pa
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### Electrical connection

AMP connector <sup>5)</sup>	6.3 mm
	4.8 mm

### Pressure connections

Pipe	Ø 6.2 mm
Orifice installed for damping pulsating pressure at P1, P2 (option)	

### Mounting instructions

Installation arrangement	Please indicate installation arrangement
	With several brackets
Mounting	Fastening clip for quick mounting

### Tests / Admissions

Gas appliance directive	90/396/EWG
DVGW certification	CE-0085AP0974
Low voltage directive	2006/95/EC

### Weight

Without accessories	~ 60 g
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### Packaging

Multiple packaging in cardboard	300 pieces
	1200 pieces

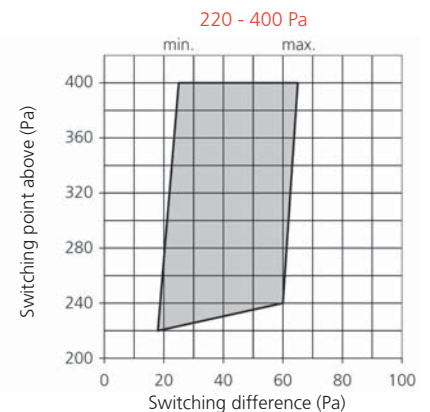
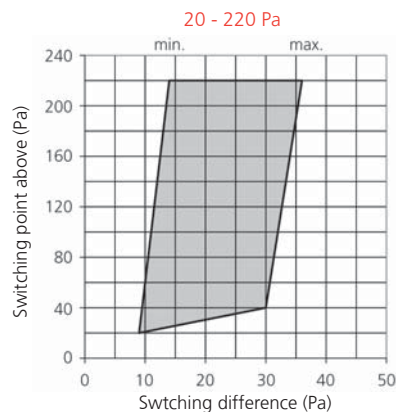
## Adjustable switching differences

Switching difference adjustment only inside shaded area:

Example: Upper switching point 220 pascal.  
Switching difference between 14 and 36 pascal.

Example: Upper switching point 40 pascal.  
Switching difference between 9 and 30 pascal.

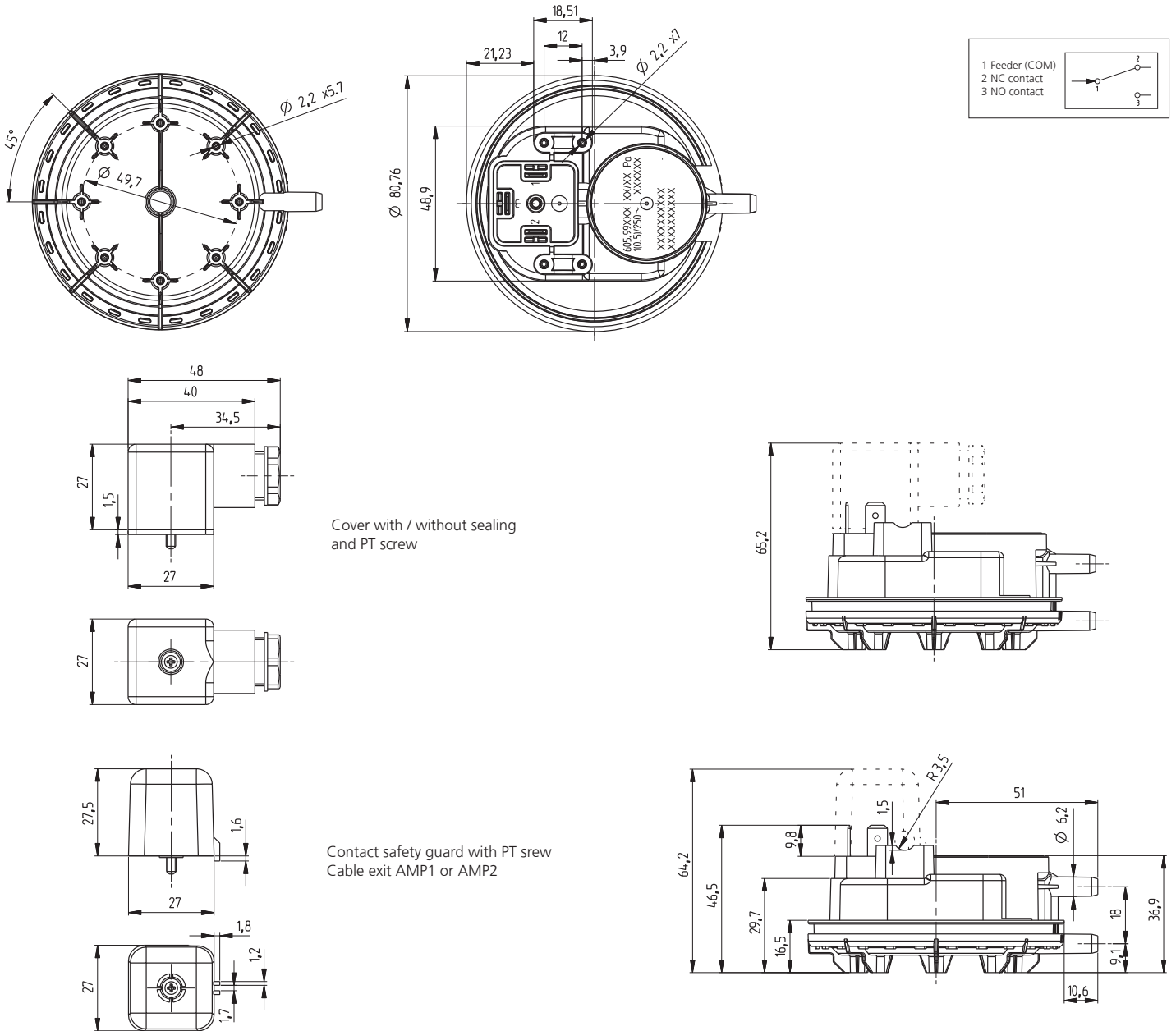
Example: Upper switching point 20 pascal,  
smallest switching difference 8 pascal.



<sup>1)</sup> Higher pressures on request  
<sup>4)</sup> Fiberglass reinforced plastic 10% GF

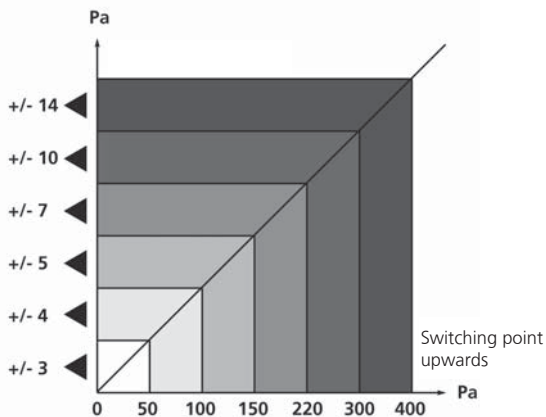
<sup>2)</sup> Higher temperatures on request  
<sup>5)</sup> According to DIN 46244

<sup>3)</sup> Switching differential is factory-set

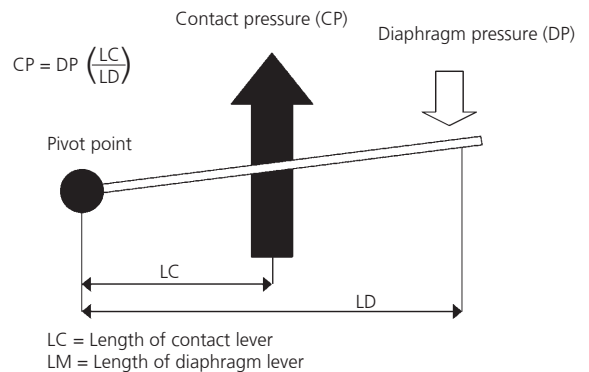


Tolerance of switching point

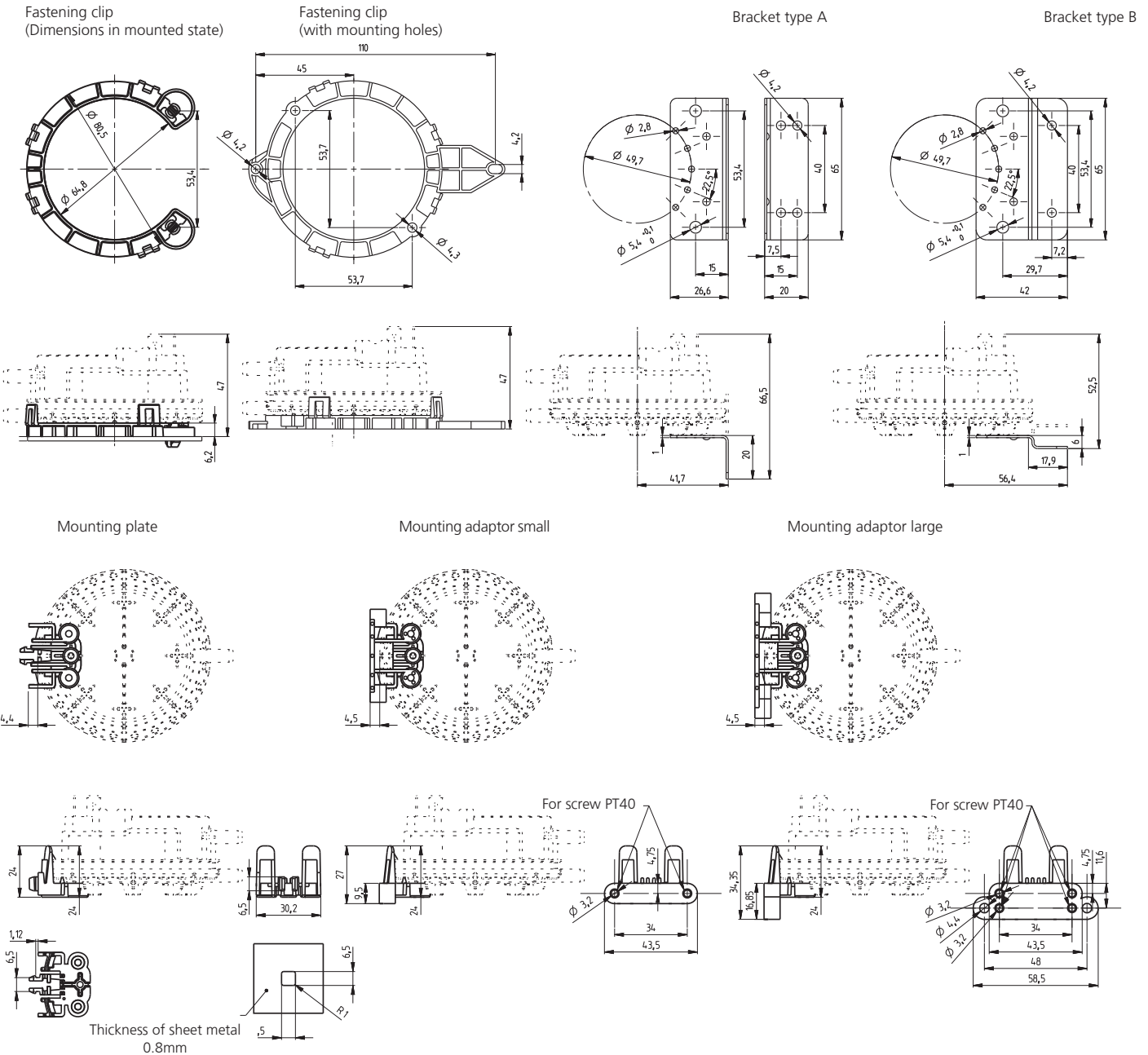
The principle of high contact pressure



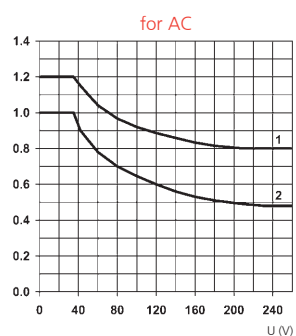
Simplified representation of the new DPS 605 contact system. The high contact pressure results from the optimized length ratios of LC and LD.



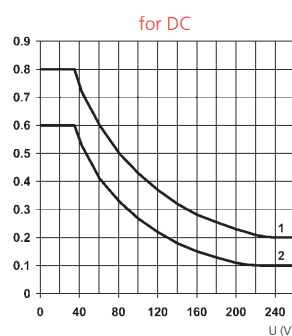
Cover with seal and PT screw		Order number	100306
Cover without seal and PT screw			100307
Cover with PT screw and cable output AMP-1			100297 + 102981 (PT screw)
Cover with PT screw and cable output AMP-2			100298 + 102981 (PT screw)
Fastening clip	Thickness of sheet metal 0.8 ... 1.1 mm		100294
	Thickness of sheet metal 1.8 ... 2.1 mm		100293
Fastening clip (with mounting holes)			106790
Bracket type A			100295
Bracket type B			100296
Mounting plate			106707
Mounting adaptor small			111223
Mounting adaptor large			112985
Calibration certificate			104551



Nominal loading limits



1 = ohmic  
 2 = inductive (cos $\phi$  0.7)



1 = ohmic  
 2 = inductive  
 Can also be operated with TTL-load



FOR FINE PRESSURE AND FLOW MEASUREMENT

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