

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 ¹⁾
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Operating conditions

Medium		Air and neutral gases
Temperature ²⁾	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 ³⁾		Smallest switching differential 8 Pa

Materials in contact with the medium

Sensor	Silicone LSR
Case	PC Lexan 500R ⁴⁾

Electrical overview

Switching load	See Nominal loading limits
Contact system	Changeover switch
Service life	Mechanically > 10 ⁶ 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 ⁵⁾	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
Mounting	With several brackets
	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

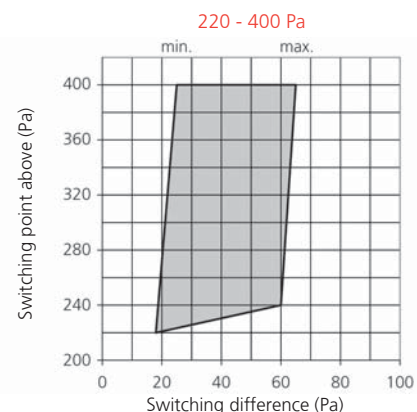
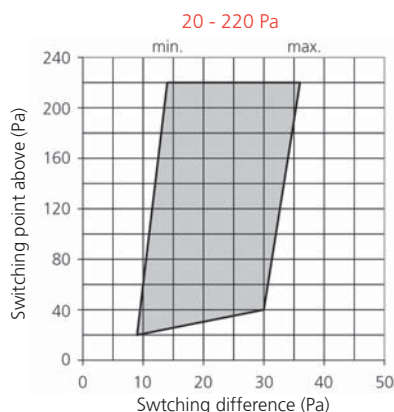
Adjustable switching differences

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.



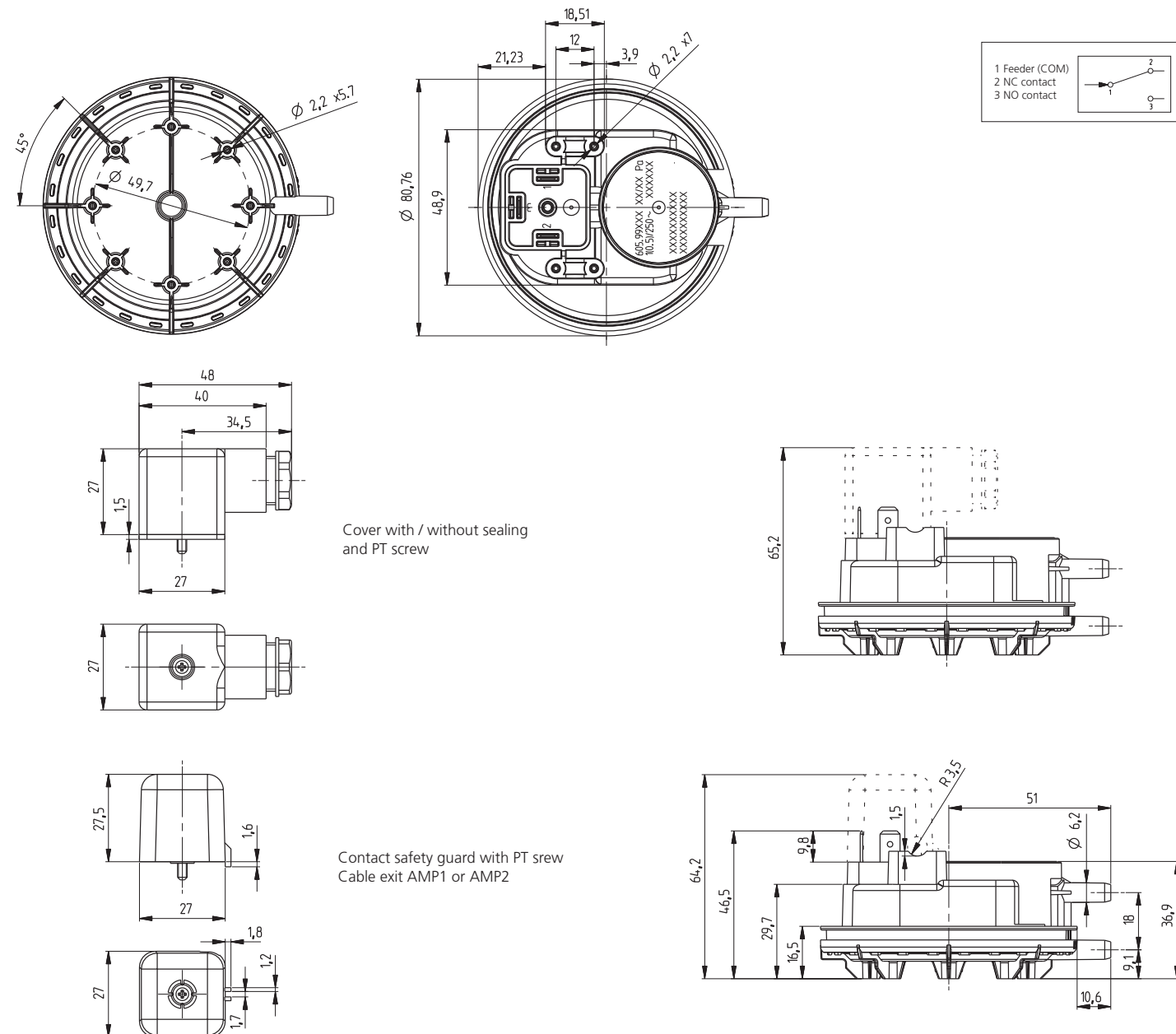
¹⁾ Higher pressures on request

⁴⁾ Fiberglass reinforced plastic

²⁾ Higher temperatures on request

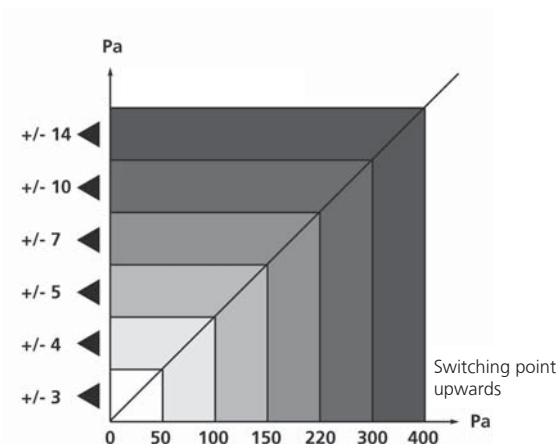
⁵⁾ According to DIN EN 17544

³⁾ Switching differential is factory-set

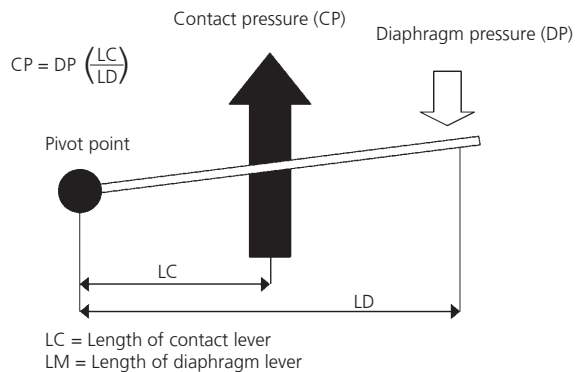


Tolerance of switching point

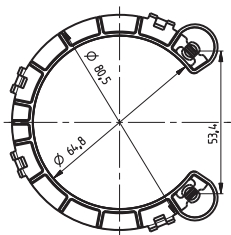
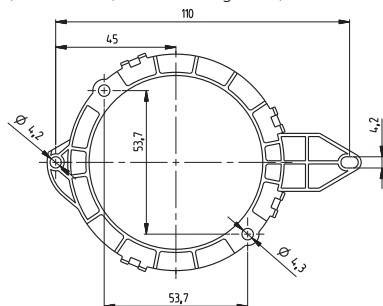
The principle of high contact pressure



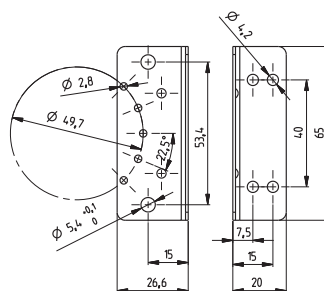
Simplified representation of the new DPS 605 contact system. The high contact pressure results from the optimized length ratios of LC and LD.



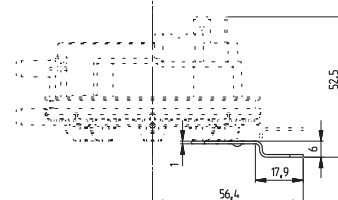
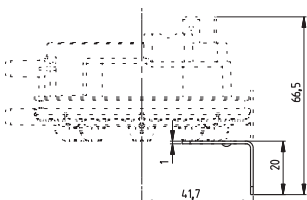
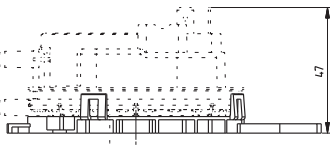
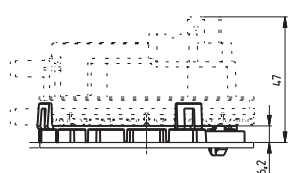
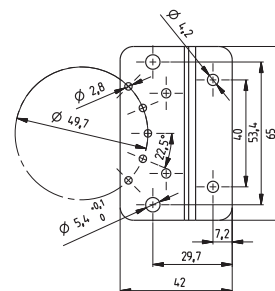
Cover with seal and PT screw	Order number
Cover without seal and PT screw	100306
Cover with PT screw and cable output AMP-1	100307
Cover with PT screw and cable output AMP-2	100297 + 102981 (PT screw)
	100298 + 102981 (PT screw)
Fastening clip	Thickness of sheet metal 0.8 ... 1.1 mm
	100294
Fastening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

Fastening clip
(Dimensions in mounted state)Fastening clip
(with mounting holes)

Bracket type A



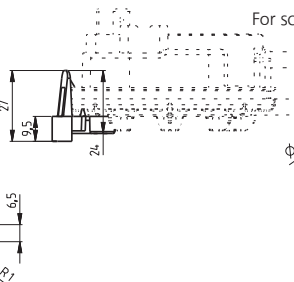
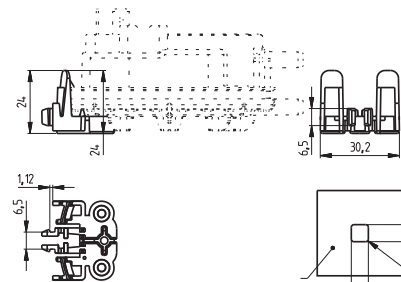
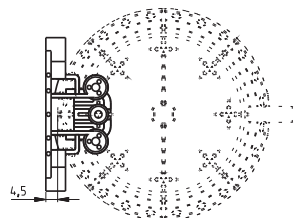
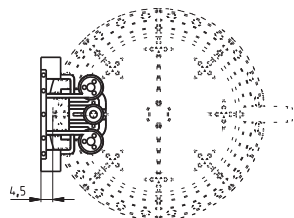
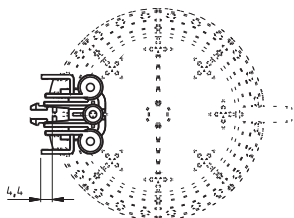
Bracket type B



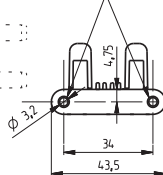
Mounting plate

Mounting adaptor small

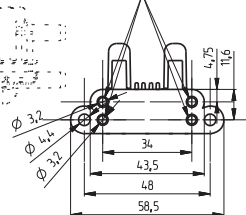
Mounting adaptor large



For screw PT40

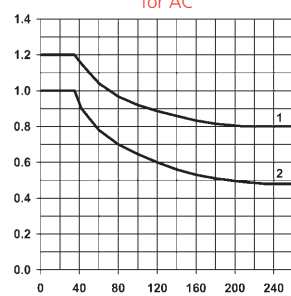


For screw PT40

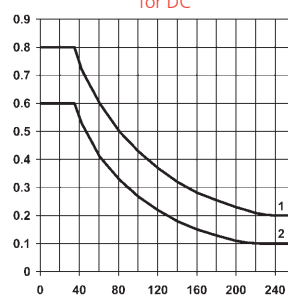
Thickness of sheet metal
0.8mm

Nominal loading limits

for AC

1 = ohmic
2 = inductive (cosφ 0.7)

for DC

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



FOR FINE PRESSURE AND FLOW MEASUREMENT

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