

FOR FINE PRESSURE AND FLOW MEASUREMENT

# 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)
  - Essentially less susceptibility to polution of contact
- Roll operation of contact surface

   Less sensitive to contact polution through self cleaning effect
- 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>
Operating conditions		
Medium		Air and neutral gases
T	Medium / ambient	-30 +110 °C
Temperature <sup>2)</sup>	Storage	-30 +110 °C
Tolerable overload on one side	< +85 °C	5000 Pa
	+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 4)
Electrical overview		
Switching load		See Nominal loading limits
Contact system Service life	Changeover switch Mechanically	> 10 <sup>6</sup> switching cycles
	Wechanically	> 10° 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
between		I I I d
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)		Ø 6.2 mm
Mounting instructions		
Installation arrangement		Please indicate installation arrangement
Mounting		With several brackets
		Fastening clip for quick mounting
Tanto / A desiratione		
Tests / Admissions UL		MFHX2/8 or XAAK2/8
DVGW		acc. to DIN EN 1854
EC type examination certificate		CE-0085AP0974
Low voltage directive		2014/35/EU
Gas appliance directive		2016/426/EU
Weight		<u></u>
Without accessories		~ 60 g
Packaging		
		300 pieces
Multiple packaging in cardboard		1200 pieces (4 boxes per pallet)

witching difference adjustment only inside haded area:	20 - 220 Pa	220 - 400 Pa
naded alea.	240 min. max.	min. max.
Example: Upper switching point 220 pascal.		400
witching difference between 14 and 36 pascal.	e 200	(in a second sec
Example: Upper switching point 40 pascal.		above (Ba)
witching difference between 9 and 30 pascal.	8 160	og og
Example: Upper switching point 20 pascal,		320
mallest switching difference 8 pascal.		D 280
	40 Vitching	50 280 280 280 280 280 280 280 280 280 28
	witc	240
	3 40	б 240
	0	200
	0 10 20 30 40 50	0 20 40 60 80 10
	Swtching difference (Pa)	Switching difference (Pa)

#### Dimensions in mm / Electrical connections

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Ø 49

22

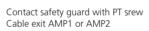
27,5

5

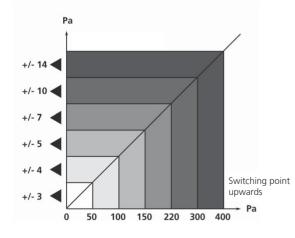


and PT screw









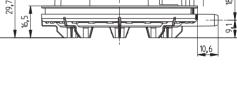
51

6**,**2

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Diaphragm pressure (DP)

36,9



#### The principle of high contact pressure

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

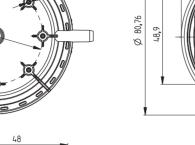
Contact pressure (CP)



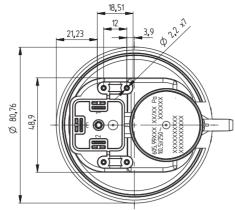
LC = Length of contact lever LM = Length of diaphragm lever

40

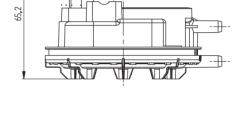
34,5



\$ 2.2 x5.7







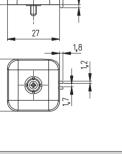
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80 0

64,2

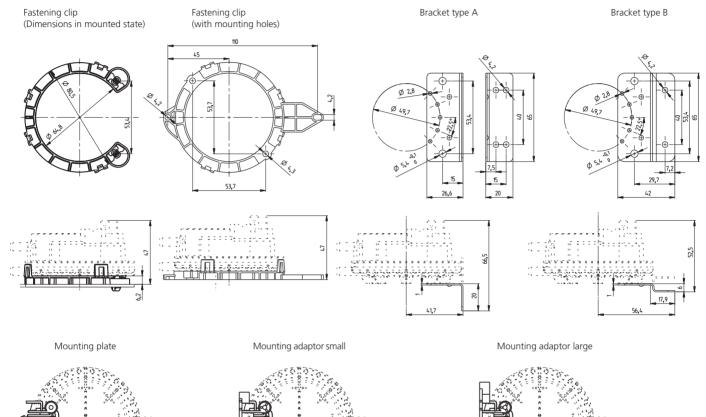
46,5

 $CP = DP \left(\frac{LC}{LD}\right)$ 

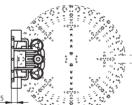


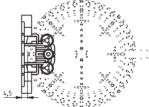
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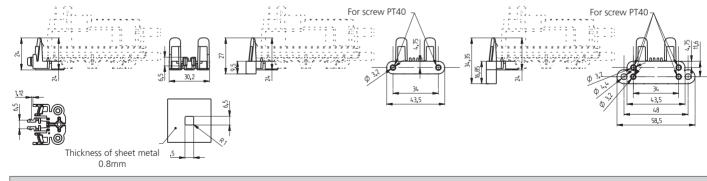
Accessories		Order number
Cover with seal and PT screw		100306
Cover without seal and PT screw		100307
Cover with PT screw and cable output AMP-1		100297 + 102981 (PT screw)
Cover with PT screw and cable output AMP-2		100298 + 102981 (PT screw)
Fastening clip	Thickness of sheet metal 0.8 1.1 mm	100294
	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 (at factory set switching points	)	104551

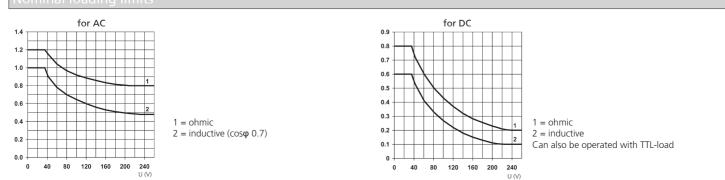












## **Huba Control**

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#### Huba Control AG

Headquarters Industriestrasse 17 5436 Würenlos Telefon +41 (0) 56 436 82 00 Telefax +41 (0) 56 436 82 82 info.ch@hubacontrol.com

#### Huba Control AG

#### Niederlassung Deutschland

Schlattgrabenstrasse 24 72141 Walddorfhäslach Telefon +49 (0) 7127 23 93 00 Telefax +49 (0) 7127 23 93 20 info.de@hubacontrol.com

#### Huba Control SA Succursale France

Rue Lavoisier Technopôle Forbach-Sud 57602 Forbach Cedex Téléphone +33 (0) 387 847 300 Télécopieur +33 (0) 387 847 301 info.fr@hubacontrol.com

#### Huba Control AG

Vestiging Nederland Hamseweg 20A 3828 AD Hoogland Telefoon +31 (0) 33 433 03 66 Telefax +31 (0) 33 433 03 77 info.nl@hubacontrol.com

#### Huba Control AG

Branch Office United Kingdom Unit 13 Berkshire House County Park Business Centre

County Park Business Centre Shrivenham Road Swindon Wiltshire SN1 2NR Phone +44 (0) 1993 776667 Fax +44 (0) 1993 776671 info.uk@hubacontrol.com

### www.hubacontrol.com