

FOR FINE PRESSURE AND FLOW MEASUREMENT

## Relative and differential pressure switch type 604

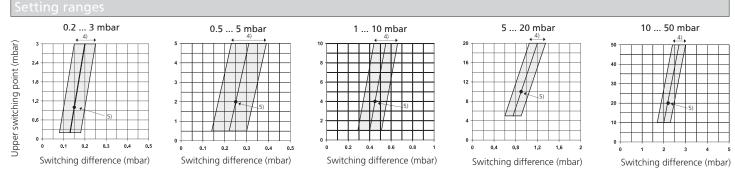
Pressure range 0.2 ... 3 – 50 mbar



The type 604 pressure switch is used as a  $\Delta$ p flow switch in ventilation ducts for the control of filters and fans, and in primary and secondary control systems for the control of air dampers. The 604 pressure monitoring switches are also ideally suited to protect heating coils from overheating and for monitoring industrial air cooling circuits.

- Easy to install
- Combi-bracket for vertical or horizontal installation
- User friendly snap cover
- Case geometry allows easy cable lead-in
- Cable strain relief integrated in PG11
- High adjustment accuracy through individual laser etched scale
- Long-term stability of switching points through trapezoidal bead diaphragm
- Multi-layer gold plated contact

Pressure range Relative and differential			0.2 3 – 50 mbar
			0.2 5 - 50 mbai
Operating conditions			
/ledium			Air and neutral gases
emperature		Medium / ambient Storage	<u>-30 +85 ℃</u> -40 +85 ℃
		-30 +75 °C	75 mbar
olerable overload on one side		-30 +85 °C	50 mbar
laterials in contact with the mediu	Im		
ensor			Silicon LSR 1)
ase			PC 10% GF
lover			PC
lectrical overview			
		Resistive load	5 A at 250 VAC 4 A at 30 VDC
Switching load)			0.8 A at 250 VAC
		Inductive 3)	0.7 A at 30 VDC
Contact system		Changeover switch	
Service life		mechanical	> 10 <sup>6</sup> switching cycles
Protection standard			
Without cover			IP 00
Vith cover			IP 54 / IP 65
Papatability			
Repeatability	0.2 3 mbar		± 0.025 mbar
	0.5 5 mbar		± 0.05 mbar
etting range	1 10 mbar	between	± 0.05 mbar
etting fange	5 20 mbar	between	± 0.05 mbar
	10 50 mbar		± 0.15 mbar
crew terminals			
			6.3 mm
AMP connectors			4.8 mm
Pressure connections			
Pipe			Ø 6.2 mm
nside thread			G 1/8
actallation arrangement			
nstallation arrangement Recommendation (Factory set)	Vertical, pressure connections facing	downwards	
actory set		- Switching points approx. 11 Pa lower than on :	scale
		witching points approx. 11 Pa higher than on scl	
Tests / Admissions			
JL			MFHX2/8 or XAAK2/8
DVGW			acc. to DIN EN 1854
EC type examination certificate			CE-0085AP0974
Low voltage directive Gas appliance directive			2006/95/EC 2009/142/EC
			2003/142/10
Veight			
Vithout bracket			~ 93 g
Vith combi-bracket type C			~ 143 g
ackaging (Please state on order)			
Single packaging in cardboard			
			20 pcs
Multiple packaging in cardboard			100 pcs
			320 pcs



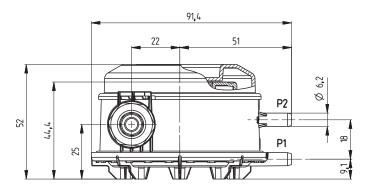
<sup>2)</sup> Multi-layer contact (suitable for DDC) <sup>5)</sup> Factory-setting

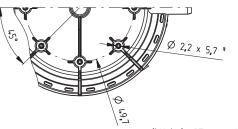
Compact A/C set (standard)	Setting range (mbar)	Connection set	Order number
Consisting of switch with hose connection Ø 6.2 mm, scale in mbar, screw terminals, multi-layer contact up to 5 A (suitable for DDC), combi-bracket type	0.2 3 mbar	Fig. 1 (Metal)	604.9000001
	0.5 5 mbar	Fig. 1 (Metal)	604.9100001
C and hose connection set, single packaging.	1 10 mbar	Fig. 1 (Metal)	604.9200001
	0.2 3 mbar	Fig. 2 (Plastic)	604.9000002
	0.5 5 mbar	Fig. 2 (Plastic)	604.9100002
	1 10 mbar	Fig. 2 (Plastic)	604.9200002
	10 50 mbar	Fig. 2 (Plastic)	604.9500002

							1	2	3	4	5	6	7	8
Order code selecti	on table					604.	X	Х	Х	Х	Х	Х	Х	
	Standard version						9							
/ersion	UL version						S							
	ETL version						E							
	0.2 3 mbar	20 300 Pa	0.08	. 1.2 inH₂O	0.08	. 1.2 inWC		0						
Setting range	0.5 5 mbar	50 500 Pa		. 2 inH <sub>2</sub> O	0.2	. 2 inWC		1						
	1 10 mbar	100 1000 Pa		. 4 inH <sub>2</sub> O	0.4	. 4 inWC		2						
	5 20 mbar	500 2000 Pa	2	. 8 inH₂O	2	. 8 inWC		4						
	10 50 mbar	1000 5000 Pa	4	. 20 inH₂O	4	. 20 inWC		5						
	Scale in mbar								0					
	Scale in Pa								1					
	Scale in inH₂O								2					
(aple 1)	Scale in inWC								6					
icale 1)	Without Scale	(rating plate in mbar)							3					
	Without Scale	(rating plate in Pa)							4					
	Without Scale	(rating plate in inH <sub>2</sub> O)							5					
	Without Scale	(rating plate in inWC)							7					
Pressure connections	Pipe Ø 6.2 mm	without pressure tip orifi	се							0				
	Pipe Ø 6.2 mm	with pressure tip orifice of	on P2							1				
	Inside thread G 1/8	without pressure tip orifi	се							2				Γ
	Inside thread G 1/8	with pressure tip orifice of	on P2							3				
	Screw terminals										0			
electronical connection	AMP connector 6.3 mm										1			
	AMP connector 4.8 mm										2			
Cover / Bracket	With cover	combi bracket type C	IP 54									0		
	With cover	bracket type A	IP 54									1		
	With cover	bracket type B	IP 54									2		
	With cover	without bracket	IP 54									3		
	Without cover	combi bracket type C										5		
	Without cover	bracket type A										6		
	Without cover	bracket type B										7		
	Without cover	without bracket										8		
	With cover	combi bracket type C	IP 65				9					А		
	With cover	bracket type A	IP 65				9					В		
	With cover	bracket type B	IP 65				9					С		
	With cover	without bracket	IP 65				9					D		
Connection kit	Without												0	
	With connection set (metal	), 90° angled	incl. tu	be 2 m long (F	ia. 1)								1	
	With connection set (plasti			be 2 m long (F									2	
Switching points	Two factory set switching p			specify on or									-	V
	One factory set switching p			specify on or										F
optional)	One factory set switching p			specify on or			1							ί

## Accessories

		Order number
Connection kit for vent duct (metal), 90° angled	including tube 2 m long (Fig. 1)	104312
Connection kit for vent duct (plastic), straight	including tube 2 m long (Fig. 2)	100064
Bracket type A		100295
Bracket type B		100098
Combi-bracket type C		100106
Attachment ring		110005
Attachment ring close		110006
Special screws for fastening bracket to switch	(2 screws per switch required)	102976
Fastening clip for bracket A, B, C or direct mounting	for wall thickness 0.8 1.1 mm	100294
Pastening cip for bracket A, B, C or direct mounting	for wall thickness 1.8 2.1 mm	100293
Calibration certificate		104551

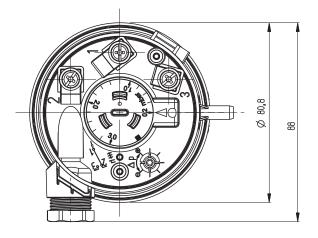




Bracket type A

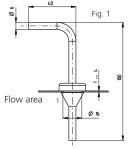
<sup>1)</sup> Hole for PT screws KA25

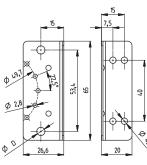


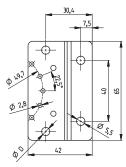


Bracket type B

Combi-bracket type C







φ 4.5

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29

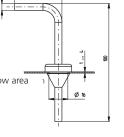
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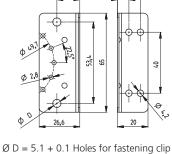
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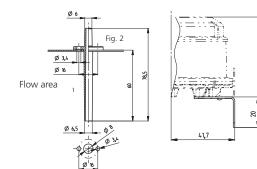
Mounting adaptor ring close (mounted)

58,4

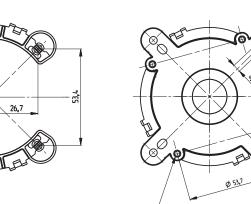




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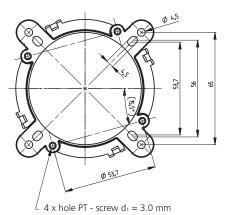
Fastening clip (mounted)

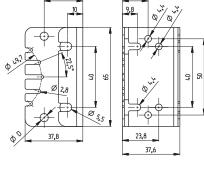


 $^{L}$  4 x hole PT - screw d<sub>1</sub> = 3.0 mm



Mounting adaptor ring (mounted)







80,5