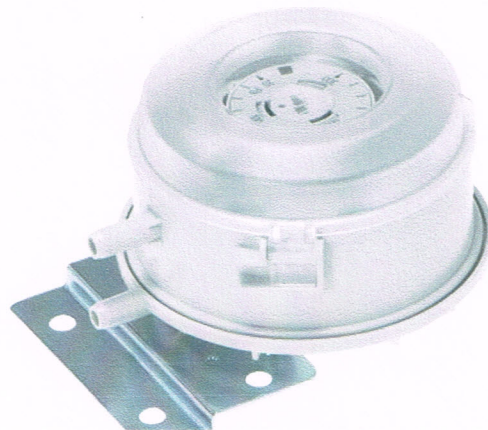


Relative and differential pressure switch type 604

Pressure range
0.2 ... 3 – 50 mbar

The type 604 pressure switch is used as a Δp 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
- User friendly snap fit cover
- Case geometry allows easy cable lead-in
- Cable strain relief integrated in PG11
- Combi-bracket for vertical or horizontal installation
- High adjustment accuracy through individual laser etched scale
- Long-term stability of switching points through trapezoidal bead diaphragm
- Multi-layer gold plated contact

Technical overview

Pressure range

Relative and differential	0.2 ... 3 – 50 mbar
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Operating conditions

Medium	Air and neutral gases
Temperature	Medium / ambient Storage
	-30 ... +85 °C -40 ... +85 °C
Tolerable overload on one side	75 mbar 50 mbar

Materials in contact with the medium

Sensor	Silicon LSR ¹⁾
Case	PC 10% GF
Cover	PC

Electrical overview

Switching load ²⁾	Resistive load	5 A at 250 VAC 4 A at 30 VDC
	Inductive ³⁾	0.8 A at 250 VAC 0.7 A at 30 VDC
Contact system	Changeover switch	
Service life	mechanical	> 10 ⁶ switching cycles

Protection standard

Without cover	IP 00
With cover	IP 54

Repeatability

Setting range	0.2 ... 3 mbar	between	± 0.025 mbar
	0.5 ... 5 mbar		± 0.05 mbar
	1 ... 10 mbar		± 0.05 mbar
	5 ... 20 mbar		± 0.05 mbar
	10 ... 50 mbar		± 0.15 mbar

Electrical connection

Screw terminals	6.3 mm
AMP connectors	4.8 mm

Pressure connections

Pipe	Ø 6.2 mm
Inside thread	G 1/8

Installation arrangement

Recommendation (Factory set)	Vertical, pressure connections facing downwards
	Horizontal, cover facing downwards – Switching points approx. 11 Pa lower than on scale
	Horizontal, cover facing upwards – Switching points approx. 11 Pa higher than on scale

Tests / Admissions

DVGW acc. to DIN 1854	
Electromagnetic compatibility	CE conformity acc. to EN 61326-2-3
EU conformity	Low voltage directive 73/23/EWG
Gas appliance directive	90/396/EWG CE 0085 A P0918

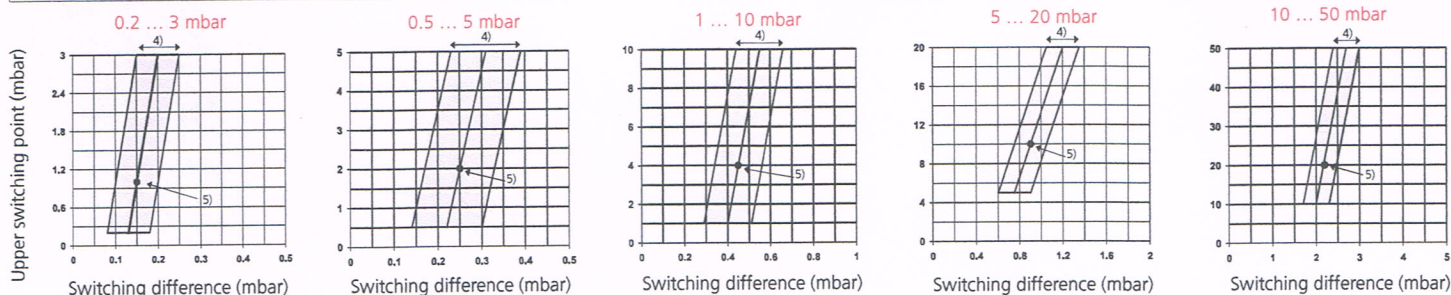
Weight

Without bracket	~ 93 g
With combi-bracket type C	~ 143 g

Packaging (Please state on order)

Single packaging in cardboard	20 pcs
	100 pcs
Multiple packaging in cardboard	320 pcs

Setting ranges



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 C and hose connection set, single packaging.	0.2 ... 3 mbar	Fig. 1 (Metal)	604.9000001
	0.5 ... 5 mbar	Fig. 1 (Metal)	604.9100001
	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

Order code selection table					604. X X X X X X X X X									
Version	Standard version				9									
	ETL version				E									
Setting range	0.2 ... 3 mbar	20 ... 300 Pa	0.08 ... 1.2 inH ₂ O	0.08 ... 1.2 inWC	0									
	0.5 ... 5 mbar	50 ... 500 Pa	0.2 ... 2 inH ₂ O	0.2 ... 2 inWC	1									
	1 ... 10 mbar	100 ... 1000 Pa	0.4 ... 4 inH ₂ O	0.4 ... 4 inWC	2									
	5 ... 20 mbar	500 ... 2000 Pa	2 ... 8 inH ₂ O	2 ... 8 inWC	4									
	10 ... 50 mbar	1000 ... 5000 Pa	4 ... 20 inH ₂ O	4 ... 20 inWC	5									
Scale	Scala in mbar									0				
	Scala in Pa									1				
	Scala in inH ₂ O									2				
	Scala in inWC									6				
	Without Scala	(rating plate in mbar)								3				
	Without Scala	(rating plate in Pa)								4				
	Without Scala	(rating plate in inH ₂ O)								5				
Pressure connections	Without Scala	(rating plate in inWC)								7				
	Pipe Ø 6.2 mm	without pressure tip orifice								0				
	Pipe Ø 6.2 mm	with pressure tip orifice on P2								1				
	Inside thread G 1/4	without pressure tip orifice								2				
Electronical connection	Inside thread G 1/4	with pressure tip orifice on P2								3				
	Screw terminals										0			
	AMP connector 6.3 mm										1			
Cover / Bracket	AMP connector 4.8 mm										2			
	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		
Connection kit	Without												0	
	With connection set (metal), 90° angled	incl. tube 2 m long (Fig. 1)											1	
	With connection set (plastic), straight	incl. tube 2 m long (Fig. 2)											2	
Switching points	Two factory set switching points	(please specify on order)												W
	One factory set switching point high	(please specify on order)												R
	One factory set switching point low	(please specify on order)												U

Accessories			Accessories supplied loose
		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	
	for wall thickness 1.8 ... 2.1 mm	100293	
Calibration certificate		104551	

4 x hole PT - screw $d_1 = 3.0$ mm