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HUBA 604 Series Differential Pressure Switch Switch Points From 0.05" w.c. to 20" w.c. DESCRIPTION

The 604 differential pressure switch is typically used for system interlock and alarm in ventilation ducts for monitoring of filter and fan pressures. They are also used to protect heating coils from overheating and for monitoring liquid level, laboratory and clean room pressures, fume hood and paint spray booth pressures and other commercial and industrial differential pressure relationships.

They are for use with air and non-corrosive gases.

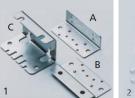
FEATURES

- 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

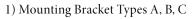
MAIN APPLICATIONS

- Industrial Machinery
- HVAC Systems
- Automotive Industry
- Medical Devices
- Water Treatment

- Aerospace
- Oil and Gas
- Food and Beverage
- Renewable Energy
- Laboratory Equipment







- 2) Mounting Clip
- 3) Plastic Duct Mount Static Tips
- ** Contact sales representative

Clark So	lutions	10 Brer	nt Drive
01411000			



SPECIFICATIONS

GENERAL

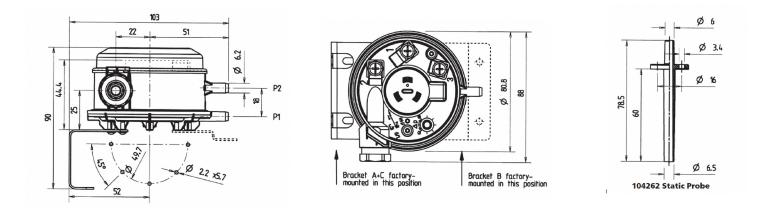
Relative and differential0.2 3 - 50 mba							
Operating conditions							
Medium	Air and neutral gases						
Temperature	Medium / ambient	-30	-30 +85 °C				
	Storage	+85 °C					
Tolerable overload on one side	-30 +75 °C						
	-30 +85 °C	50 mbar					
Dead Band	Factory set						
Lowest Actuation Pressure	0.08 inches w.c.						
Repeatability	·						
Setting range	0.2 3 mbar			± 0.025 mba			
	0.5 5 mbar			± 0.05 mbai			
	1 10 mbar	betwe	een	± 0.05 mbar			
	5 20 mbar			± 0.05 mbar			
	10 50 mbar			± 0.15 mbai			
Electrical connection	· · · · · · · · · · · · · · · · · · ·						
Screw terminals	AMP	AMP					
	connectors			4.8 mm			
Pressure connections	<u>~</u>						
Pipe	Ø 6.2 mm						
Inside thread	G 1/8	[
Installation arrangement							
Recommendation (Factory set)	Vertical, pressure con	nections	facing	g 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							
UL	MFHX2/8 or XAAK2/8						
DVGW	acc. to DIN EN 1854						
Low voltage directive	2014/35/EU						
Gas appliance regulation	2016/426/EU						
Weight							
Without bracket	~ 93 g						
With combi-bracket type C	~ 143 g						

Email: Sales@clarksol.com

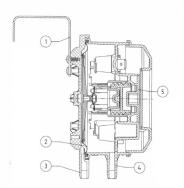
Tel. 800 / 253 2497

Hudson, MA 01749

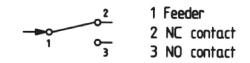
DIMENSIONS (MM)



PRODUCT DESCRIPTION

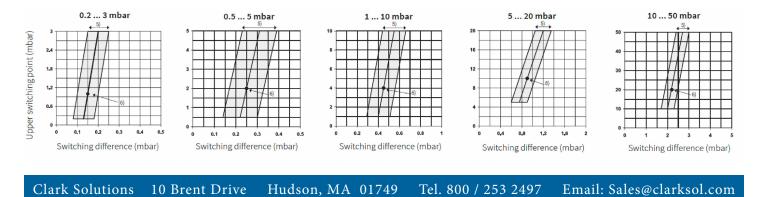


ELECTRICAL CONNECTIONS



- 1) Mounting Bracket
- 2) Diaphragm
- 3) P1 Connection of Higher Pressure or Lower Vacuum
- 4) P2 Connection of Lower Pressure or Higher Vacuum
- 5) Scale (Switch Point Setting)

SETTING RANGES



ORDERING INFORMATION

Order code selection table 604.					4	1 v	2 x	3 V	4 V	5 V	6 V	7 V	8 V
					4.	Х	Χ	X	Х	X	Х	X	X
Version						9		<u> </u>		<u> </u>		<u> </u>	<u> </u>
	UL version					S	-			<u> </u>			
Setting range	0.2 3 mbar 20 300 Pa 0.08 1.2 inH ₂ O 0.08 1.2 inW			C		0	-		<u> </u>				
	0.5 5 mbar	50 500 Pa	0.2 2 inH2O	0.2 2 inWC			1	-		<u> </u>		 	<u> </u>
	1 10 mbar	100 1000 Pa	0.4 4 inH2O	0.4 4 inWC			2	_		<u> </u>		<u> </u>	<u> </u>
	5 20 mbar	500 2000 Pa	2 8 inH2O	2 8 inWC			4			<u> </u>		<u> </u>	<u> </u>
	10 50 mbar	1000 5000 Pa	4 20 inH ₂ O	4 20 inWC			5					<u> </u>	
Scale ¹⁾	Scale in mbar					<u> </u>	0		<u> </u>		<u> </u>	<u> </u>	
	Scale in Pa Scale in inH2O						<u> </u>	1				<u> </u>	ļ
							<u> </u>	2				<u> </u>	
	Scale in inWC							6					
	Without Scale	Vithout Scale (rating plate in mbar)						3					
	Without Scale (rating plate in Pa)							4					
	Without Scale	Scale (rating plate in inH2O)						5					ļ
	Without Scale (rating plate in inWC							7					
Pressure connections	Pipe Ø 6.2 mm without pressure tip orifice								0				
	Pipe Ø 6.2 mm	pe Ø 6.2 mm with pressure tip orifice on P2							1				
	Inside thread G ¼ without pressure tip orifice								2				
	Inside thread G ¼ with pressure tip orifice on P2								3				
Electronical connection	n Screw terminals									0			
	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										1		
	With coverbracket type BIP 54 2With coverwithout bracketIP 54 3										2		
											3		
	Without cover combi bracket type C								Ì		5		
	Without cover bracket type A								Ì		6		
	Without cover bracket type B										7		
	Without cover	without bracket									8		
Connection kit	Without							1	1	1		0	
	With connection set (metal), 90° angled incl. tube 2 m long (Fig. 1)							1	Î		Î	1	
	With connection s	et (plastic), straight	incl. tube 2 m	long (Fig. 2)			1	1	Ì	ĺ	Ì	2	
Switching points	Two factory set switching points (please specify on order)						1	1	Î	ĺ	Î		W
(optional)	One factory set switching point high (please specify on order)						1	1	Î	ĺ	Î	1	R
	One factory set switching point low (please specify on order)						1	1	1	1	1	1	U

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
Calibration certificate (at factory set switching points)	104551

10 Brent Drive Hudson, MA 01749

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