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Relative and differential pressure switch

Type 630

Differential pressure, vacuum and overpressure switches of type series 630 are suitable for monitoring neutral and slightly aggressive liquids and gases. Switching element isolated from medium. Ideal for use as flow monitor in sanitary piping/ heating installations or for level monitoring in general in process technology applications. Extremely rugged construction with high functionality due to10/20 bar safety margin in both pressure chambres.

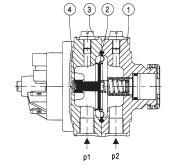
6... 5500 mbar

- + High overpressure safety margin at both connections (P1 + P2) up to 10/20 bar
- + Funcionally simple, rugged mechanics with high operating reliability
- + Also for slightly aggressive liquids and gases
- Specially economical version with switching points + adjusted in the factory
- Repeatability up to $< \pm 0.4$ mbar



ressure range		
elative und differential		6 5500 mbar
perating conditions		
edium		Liquids and neutral gases
	NBR-based	0 +80 °C
	FPM	-10 +80 °C
emperature	EPDM	-10 +80 °C
	<u>Q</u> (Silicone) Ambient	-40 +80 °C +65 °C
	Storage	-40 +80 °C
	< 200 mbar	10 bar
lerable overload and max. tolerable system pressure (P1 > P2	2) - 200 mbar	20 bar
ipture pressure		30 bar
west turn-on pressure		≥6 mbar
nallest switching difference		≥3 mbar
terials in contact with the medium		
		NBR based
		EPDM
aphragm		FPM
		Silicone
		Anodized aluminium
se		Brass Brass chemically nickel plated
		X14CrMoS17 1.4104
		X5CrNi18-10 1.4301
har componente		X10CrNi18-8 1.4310
ner components		Steel category A2 for screws
		Polyacetate-C, Polyamide
ominal current for resistive loading ominal current for motor loading ontact system		1 A 0.5 A Changeover contact
ervice life	Mechanically	10 ⁶ switching cycles ¹⁾
		20 0000000
otection standard		
thout cover		IP 00
th cover (PG11) 2) th cover (PG9) 3)		IP 54 IP 65
		IP 05
peatability		
5% of the switching point	with diaphragm NBR-based / silicone	minimum ±0.4 mbar
0% of the switching point	with diaphragm FPM / EPDM minimum ±0.8 mbar	
ectrical connections		
rew terminals (Option)		
b connectors (AMP) 6.3 mm		
ble gland PG9 / PG11		with cover
essure connections		
nread		G 1⁄8
raight screwed connection	Zinc plated steel with NBR seal for pipe (Ø 6 mm)	G 1/8
rewed Socket	CuZn nickel plated for tube (Ø 6 mm)	G 1/8
ounting instructions		
ounting instructions or switching points calibrated in the factory	Indicate installation arrangem	nent
case of liquid media	indicate installation analigen	Connections down
	ching points also change. The adjustment ranges are in relation with the mo	
eight ith aluminium base		~ 380 g

Single packaging in cardboard boxes



Legend to cross-section drawing

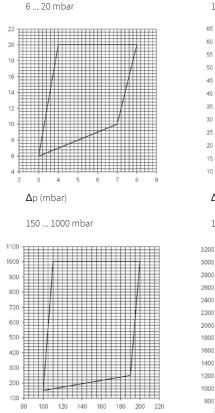
- Pressure case Diaphragm Vent

1

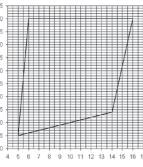
- 2 3 4 P1
- Permanent magnet Higher pressure / lower vacuum Lower pressure / higher vacuum P2

				1	2	3	4	5	6	7
Order code selectior	1 table		630.	Χ	Χ	Χ	Х	Х	Х	Х
Presssure range ¹⁾	6 20 mbar			9	1					
	15 60 mbar			9	2					
	40 200 mbar			9	3					
	150 1000 mbar			9	4					
	1 3 bar			9	5					
	2 5.5 bar			9	6					
Contact material	AgCdO					0				
Pressure case	Anodized aluminium, black						0			
	Brass						1			
	Nickelplated brass						2			
	Anodized aluminium, black	with straight screwed connection G1/8 for pipe ø 6 mm					3			
	Brass	with straight screwed connection G1/8 for pipe ø 6 mm					4			
	Nickel plated brass	with straight screwed connection G1/8 for pipe ø 6 mm					5			
	Anodized aluminium, black	with screwed socket G1⁄8 for tube ø 6 mm					6			
	Brass	with screwed socket G1⁄8 for tube ø 6 mm					7			
	Nickel-plated brass	with screwed socket G1⁄8 for tube ø 6 mm					8			
Diaphragm material	NBR							0		
	FPM							1		
	EPDM							2		
	Q (silicone)							3		
Cover PG9 on side / Bracket	Without cover	without bracket							0	
		with bracket type A							1	
		with bracket type B							2	
	With cover (plastic) (Fig.1) (PG11)	without bracket							3	
		with bracket type A							4	
		with bracket type B							5	
	With spec. cover (Fig.2) (PG9)	without bracket							6	
		with bracket type A							7	
		with bracket type B							8	
Switching points (optional)	Two factory set switching points	(please specify on order e.g.: W10/8mbar)								W
	One factory set switching point high	(please specify on order e.g.: R25mbar)								R
	One factory set switching point low	(please specify on order e.g.: U100mbar)								U

Setting ranges

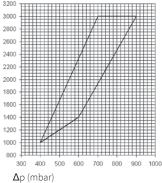


15 ... 60 mbar

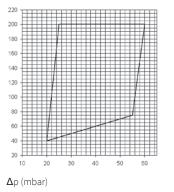


 Δ p (mbar)

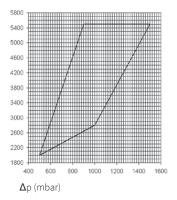
1000 ... 3000 mbar (1... 3 bar)



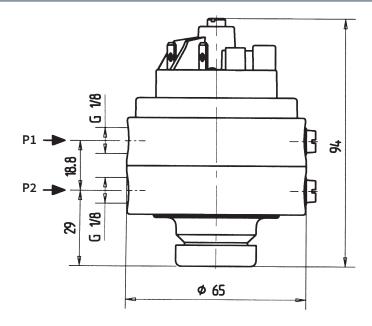


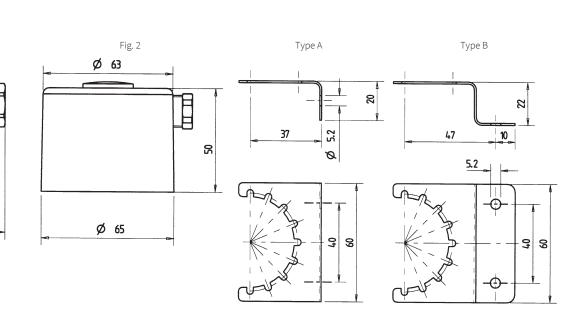


^{2000 ... 5500} mbar (2 ... 5.5 bar)



 Δ p (mbar)





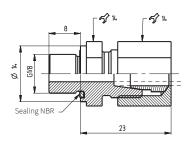
Straight screwed connector G 1⁄8

Ø 50

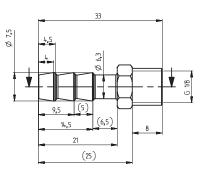
65

Fig. 1

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Screwed Socket G 1⁄8





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1 Feeder (COM) 2 NO contact 3 NC contact