

FOR FINE PRESSURE AND FLOW MEASUREMENT

Relative and differential pressure switch type 630

Pressure range 6 ... 5500 mbar

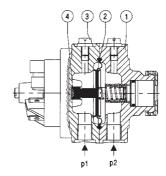


Differential pressure, vacuum and overpressure switches of type series 630 are suitable for monitoring neutral and slightly aggressive liquids and gases. Switching element isolated from medium.

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 to 10/20 bar safety margin in both pressure chambres.

- High overpressure safety margin at both connections (P1 + P2) up to 10/20 bar
- Functionally 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 < ± 0.4 mbar

Technical overview						
Pressure range						
elative und differential		6 5500 mbar				
perating conditions						
edium		Liquids and neutral gases				
	NBR-based	0 +80 ℃				
	FPM	-10 +80 °C				
emperature	EPDM	-10 +80 °C				
perdeare	Q (Silicone)	-40 +80 °C				
	Ambient	+65 °C				
	Storage - 200 mbar					
olerable overload and max. tolerable system pressure (P1 > P2)	≤ 200 mbar > 200 mbar	20 bar				
ipture pressure	> 200 Hibal	30 bar				
west turn-on pressure		≥ 6 mbar				
nallest switching difference		≥ 3 mbar				
aterials in contact with the medium						
		NBR based				
aphragm		EPDM				
аршауш		FPM Gillion and				
		Silicone				
		Anodized aluminium Brass				
ase		Brass chemically nickel plated				
		X14CrMoS17 1.4104				
		X5CrNi18-10 1.4301				
La companya da		X10CrNi18-8 1.4310				
her components		Steel category A2 for screws				
		Polyacetate-C, Polyamide				
		, , , , , ,				
ontact material / Loading						
ominal voltage, type of current		250 VAC				
nal current for resistive loading		1 A 0.5 A				
ominal current for motor loading						
ontact system		Changeover contact				
ervice life	Mechanically	10 ⁶ switching cycles ¹⁾				
rotection standard						
/ithout cover		IP 00				
Tith cover (PG11) ²⁾		IP 54				
ith cover (PG9) ³⁾		IP 65				
epeatability						
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				
ostrical connections						
ectrical connections rew terminals (Option)						
b connectors (AMP) 6.3 mm						
able gland PG9 / PG11		with cover				
iste grand (es) (e)		With cover				
essure connections						
read		G ⅓				
raight screwed connection	Zinc plated steel with NBR seal for pipe (Ø 6 mm)	G ⅓				
rewed Socket	CuZn nickel plated for tube (Ø 6 mm)	G 1/4				
lounting instructions		Indicate installation arrangement				
	itching points calibrated in the factory					
case of liquid media	points also change. The adjustment server in action of the	Connections down				
Emark: By changing the mounting position the switching	points also change. The adjustment ranges are in relation with t	the mounting position.				
eight .						
ith aluminium base		~ 380 g				
ith base brass / nickel-plated brass		~ 1000 g				
viai base brass / fileker plated brass		1000 y				



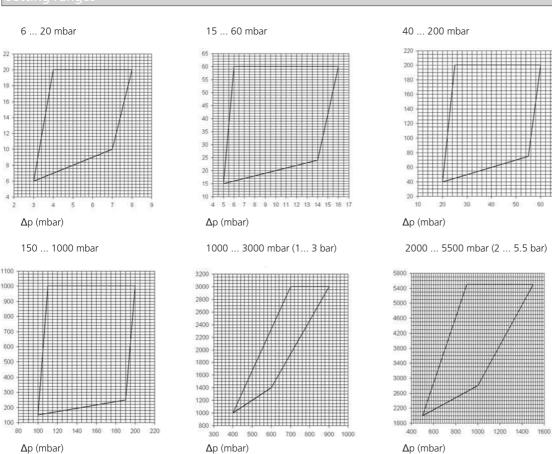
Legend to cross-section drawing

- Pressure case
- Diaphragm
- Vent
- 2 3 4 P1 P2
- Permanent magnet Higher pressure / lower vacuum Lower pressure / higher vacuum

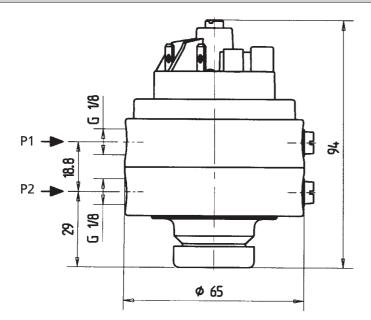
Packaging
Single packaging in cardboard boxes

				1	2	3	4	5	6	7
Order code selection table			630.	Χ	Χ	Χ	Χ	Χ	X	X
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 G⅓ for tube ø 6 mm					6			
	Brass	with screwed socket G⅓ for tube ø 6 mm					7			
	Nickel-plated brass	with screwed socket G1/2 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

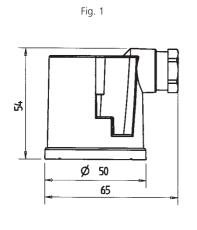
Setting ranges

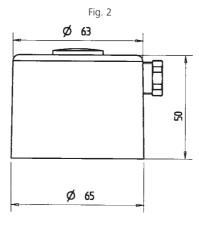


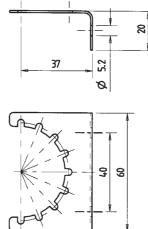
¹⁾ Other pressure range on request



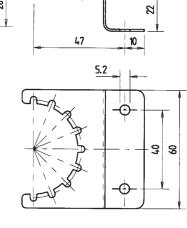






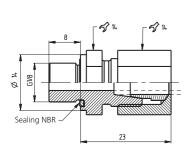


Type A



Type B

Straight screwed connector G 1/8



Screwed Socket G 1/8

