

Differential pressure, vacuum and overpressure switches

Type 630

Technical

data

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 chambers.

The distinct advantages

- **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**
- **Reproducibility up to ± 0.4 mbar**

Differential pressure, vacuum and overpressure switches

Type 630

6 - 1000 mbar

Pressure range gradation and executions see order code selection table



Description

Technical data

System pressure (overload)	Max. system pressure and overload on one side ($P1 > P2$) with
	range up to ≤ 200 mbar = 10 bar
	150 - 1000 mbar =

		20 bar
Lowest turn-on pressure	6 mbar / switching point and switching difference adjustable.	
	Smallest switching difference 3 mbar	
Reproducibility	+/- 5% of switching point with diaphragm material	
	type A, F, but as a minimum ± 0.4 mbar	
	+/- 10% of switching point with diaphragm material	
	Viton / EPDM, but as a minimum ± 0.8 mbar	
Temperature range	Medium and ambient temperature with diaphragm:	
	NBR-based 0 ... 80°C	
	FPM (Viton)	-10 ... 80°C
	EPDM - 10 ... 80°C	
	Q (Silicon)	- 40 ... 80°C
Case construction	Anodized aluminium, brass,	
	brass chemically nickel-plated	
Diaphragm	A - NBR-based / E - EPDM / C - Viton / F - Silicon	
	Parts that come into contact with the medium,	
	to base and diaphragm:	
	X 12 CrMoS	17 / 1.4104
	X 5 CrNi	18 9 / 1.4301
	X 12 CrNi	17 7 / 1.4310
	Steel category A2 for screws: Polyacetate-C / Polyamide	
Contact material /	Nominal voltage type of current	VAC 250
Loading	Nominal voltage for resistive loading	1 A
	Nominal voltage for motor loading	0.5 A
	Contact material	AgCdO
Electrical connections	Screw terminals (option)	
	AMP tab connectors 6.3 mm	
	With cover: Cable gland PG 9/11	

Contact system	Changeover contact
Protection class	IP 00 without cover
	IP 54 with cover
	(for installation arrangement electrical connections upward)
	IP 65 with cover
Service life	Mechanical and electrical service life:
	10 ⁶ switching cycles, if the permitted switching difference is respected