

Differential pressure, vacuum and overpressure switches

Type 610

Technical
data

Differential pressure, vacuum, overpressure switches of type serie 610 are specially suited for monitoring liquids and non-explosive gases in the machine and industrial equipment building industry in general, in process engineering or as control and monitoring elements in packing lines.

Finely adjustable switching points and switching differences even in the higher ranges with exemplary reproducibility.

The distinct advantages

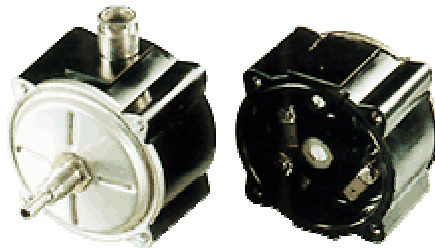
- **High accuracy** (especially the upper pressure ranges by 17 ideally designed pressure range incrementations)
- **Easy of accurate adjustment by customer**
- **Reproducibility of switching points up to $< \pm 0.1$ mbar**
- **Rugged mechanics with high operating reliability and switching capacities up to 10 A**

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-420 up to +600 mbar

Pressure range gradation and executions see order code selection table



Description

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Maximum overpressure	50 - 1000 mbar (range-dependent)
	(See order code selection table)
Lowest turn-on pressure	1 mbar / Switching point and switching difference adjustable
Lowest switching difference	0.5 mbar

Reproducibility	± 5% of the switching point of type A and F diaphragm material,			
	but as a minimum ± 0.1 mbar			
	± 10% of the switching point of type C and E diaphragm material,			
	but as a minimum ± 0.2 mbar			
Temperature ranges	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		
Caseversion	Case material: Duroplast			
	Case base: Galvanized sheet steel, nickel-plated brass			
	or stainless steel			
Pressure	A - NBR-based, C - Viton, E - EPDM, F - Silicon			
	Parts that com into contact with the medium,			
	to base Inox and diaphragm:			
	Inox 1.4301, 1.4305, 1.4310, 1.4104			
	To base, galvanized sheet steel and diaphragm:			
	Inox 1.4310, brass, aluminium			
	To base, nickel-plated brass and diaphragm:			
	Inox 1.4301, 1.4310			
	With medium in pressure chamber P2:			
	Brass, nickel-plated brass, CuSn, Bakelit PF-PH,			
	Polyamide and Polyacetale, AgCdO, NBR			
Electrical connections	Screw terminals (AMP tab connectors 6.3 mm)			
	Gland PG 9			
Contact system	Changeover contact			
Contact material / Loading	Nominal voltage type of current	VAC	250	250
	Nominal current for resistive loading		1 A	10 A
	Nominal current for motor loading		0.5 A	3 A
	Contact material		AgCdO	AgCdO

Protection standard	IP 30
Service Life	> 10 ⁶ switching cycles