Differential pressure, vacuum, overpressure switch

6 mbar to 5.5 bar





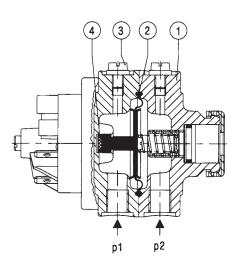




Technical overview

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.



Legend to cross-section drawing

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

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
- Repeatability up to < ± 0.4 mbar

Pressure ranges

See order code selection table

System pressure (overload)

Max. system pressure and overload on one side (P1 > P2)

with range up to \leq 200 mbar: 10 bar with range 150 ... 5500 mbar: 20 bar

Setting ranges

See graphic on the back

Lowest turn-on pressure

6 mbar

Switching point and switching difference adjustable

Smallest switching difference 3 mbar

Repeatability

 \pm 5% of the switching point of type A, F diaphragm material, but as a minimum \pm 0.4 mbar \pm 10% of the switching point of type C, E diaphragm material, but as a minimum

± 0.8 mbar

Temperature range

Medium and ambient temperature with diaphragm:

NBR-based 0 ... + 80 °C FPM - 10 ... + 80 °C EPDM - 10 ... + 80 °C Q (Silicon) - 40 ... + 80 °C

Case construction

Anodized aluminium, brass, brass chemically nickel-plated

Weight

With aluminium base 380 g With base brass / nickel-plated brass 1000 g

Installation arrangement

Unrestricted. For switching points calibrated in the factory indicate installation arrangement. In case of liquid media vent screw at top, i.e. connections down (IP 40 with cover fig. 1)

Pressure connections

Thread G 1/8

Diaphragm

A NBR-based C FPM E EPDM F Silicon

Parts coming 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

Electrical connections

Screw terminals (option), AMP tab connectors 6.3 mm

With cover: Cable gland Pg 9/11

Contact system

Changeover contact

Contact material / Loading

Nominal voltage, type of current
Nominal current for resistive loading
Nominal voltage for motor loading
Contact material

VAC 250

1 A

0.5 A

AgCdO

Type of protection

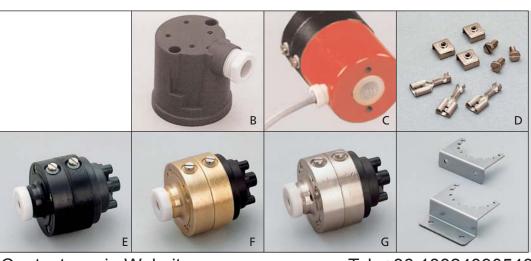
Without cover IP 00
With cover (for installation arrangement electrical connections upward), picture B IP 54
With cover, picture C IP 65

Service life

Mechanical and electrical service life: 10⁶ switching cycles, if the permitted switching difference is respected according to the diagram on the back.

Accessories

See order code selection table



Versions

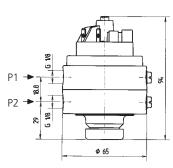
- B Plastic cover with Pg 11 on side, fig. 1
- C Cable connection with cover Pg 9 (IP 65)
- D Screw terminals/ AMP connector set
- E Pressure case anodized aluminium
- F Pressure case brass
- G Pressure case nickel-plated brass
- H Mounting bracket type A / type B

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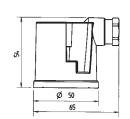
Order code selection table		630.	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
Pressure ranges ¹	System pressure / Overload on one side (P1)										
3	6 20 mbar 10 bar		9	1							
	15 60 mbar 10 bar		9	2							
	40 200 mbar 10 bar		9	3							
	1501000 mbar 20 bar		9	4							
	1 3 bar 20 bar		9	5							
	2 5.5 bar 20 bar		9	6							
Contact material	AgCdO				0						
Pressure case	Anodized aluminium, black					0					
	Brass					1					
	Nickel-plated brass					2					
Diaphragm material	Type A – NBR-based						0				
	Type C – FPM						1				
	Type E – EPDM						2				
	Type F – Q (Silicon)						3				
Cover Pg 9 on side /	without cover, without bracket							0			
bracket	without cover, with bracket type A							1			
	without cover, with bracket type A without cover, with bracket type B							2			
	with plastic cover (Pg 11), without bracket (IP 5	1)						3			
	with plastic cover (Pg 11), with bracket type A (IP 5	,						4			
	with plastic cover (Fg. 11), with bracket type B (IP 5)							5			
	with special cover (Fg 91), without bracket type 8 (IP 6							6			
	with special cover (Fg 9), without bracket type A (IP 6							7			
	with special cover (Pg 9), with bracket type A (IP 6) with special cover (Pg 9), with bracket type B (IP 6)							8			
	with special cover (rg 3), with bracket type b (if 0	رر						0			

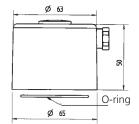
Accessories								
Plastic cover with Pg 11 lateral	IP 54	Fig. 1	1	0	5	8	3	6
Plastic cover with Pg 9 lateral	IP 65	Fig. 2	1	0	5	2	9	4
O-ring			1	0	3	3	4	2
AMP connector set			1	0	3	4	7	9
Screw terminal set			1	0	3	4	9	1

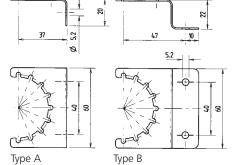
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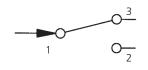






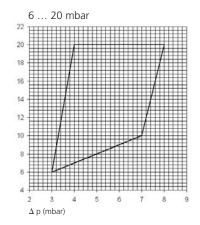


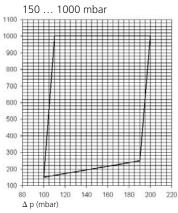


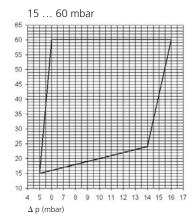


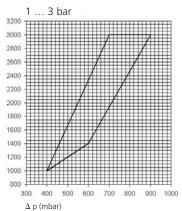
- 1 Common
- 2 NO contact
- 3 NC contact

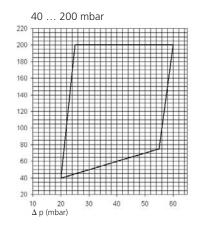
Setting ranges

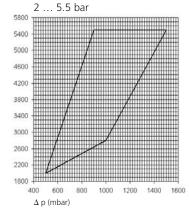












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