

Diaphragm pressure switch, flameproof enclosure Ex d

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Applications

- Pressure monitoring and control of processes
- Safety-critical applications in general process instrumentation, especially in the chemical and petrochemical industries, oil and gas industries, power generation incl. nuclear power plants, water/wastewater industries, mining
- For gaseous and liquid, aggressive and highly viscous or contaminated media, also in aggressive ambience

Special features

- No power supply needed for switching of electrical loads
- Robust switch enclosure from aluminium alloy, IP 66, NEMA 4X
- Setting ranges from 0 ... 16 mbar to 30 ... 600 bar, vacuum ranges
- Repeatability of the set point $\leq 1\%$ of span
- 1 or 2 independent set points, SPDT or DPDT, high switching power up to AC 250 V, 20 A



Order numbers

Measuring elements and wetted materials	XX - Diaphragm AISI 316, 304, Inconel or Hastelloy (piston AISI 316), process connection AISI 316L	
Contact versions	UN - 1x SPDT silver contact	US - 1x SPDT silver contact, hermetically sealed, argon gas filling
Process connection	1/4 NPT-F	
Electrical connection	1/2 NPT-F	
Setting range		
0 ... 16 mbar	14183015	14183016
0 ... 100 mbar	14183018	14183019
0 ... 1 bar	14183021	14183022
0 ... 6 bar	14183024	14183025
0 ... 25 bar	14183026	14183027
10 ... 250 bar ¹⁾	14183028	14183029
30 ... 600 bar ¹⁾	14183030	14183031

¹⁾ Sensor: welded diaphragm (MAG)

Legend: available from stock in Germany available after production ---- not available

Quick order code (for further details see data sheet PV 31.11)

Field no.	Code	Version				
Model						
①	MAB	low setting ranges from -100 ... 0 mbar up to 0 ... 100 mbar				
	MA-	medium setting ranges from -1 ... 0 bar up to 0 ... 40 bar				
	MAG	high setting ranges from 4 ... 40 bar up to 30 ... 600 bar, sensor welded diaphragm				
	MAH	high setting ranges from 4 ... 40 bar up to 30 ... 600 bar, sensor piston				
Measuring elements and wetted materials						
②	XX	Diaphragm AISI 316, 304, Inconel or Hastelloy (Piston AISI 316)/ Process Connection AISI 316L				
	TX	Diaphragm + PTFE coating / Process Connection AISI 316L				
	TT	Diaphragm + PTFE coating / Process Connection AISI 316L + PTFE				
	KK	Diaphragm Monel / Process Connection Monel				
	KX	Diaphragm Monel / Process Connection AISI 316L				
Contact versions						
③	UN	1x SPDT silver contact				
	US	1x SPDT silver contact, hermetically sealed, argon gas filling				
	UO	1x SPDT gold-plated contact, hermetically sealed, argon gas filling				
	UG	1x SPDT gold-plated contact				
	UR	1x SPDT silver contact, adjustable dead band				
	DN	2 x SPDT or 1 x DPDT silver contact				
	DS	2 x SPDT or 1 x DPDT silver contact, hermetically sealed, argon gas filling				
	DO	2 x SPDT or 1 x DPDT gold-plated contact, hermetically sealed, argon gas filling				
	DG	2 x SPDT or 1 x DPDT gold-plated contact				
Setting range						
④	MNF	-16...0 mbar	MAJ	0...100 mbar	BBD	0...1 bar
	MNG	-25...0 mbar	MNK	-200...0 mbar	BBE	0...1,2 bar
	MNH	-40...0 mbar	MNM	-400...0 mbar	BBG	0...2,5 bar
	MNI	-60...0 mbar	MCD	-100...100 mbar	BBI	0...6 bar
	MNJ	-100...0 mbar	MCF	-500...500 mbar	BBJ	0...10 bar
	MCA	-12,5...12,5 mbar	MAL	0...200 mbar	BBK	0...16 bar
	MCB	-30...30 mbar	MAN	0...400 mbar	BBL	0...25 bar
	MCC	-50...50 mbar	BMD	-1...0 bar	BBM	0...40 bar
	MAF	0...16 mbar	BME	-1...1,5 bar	BBN	4...40 bar
	MAG	0...25 mbar	BMF	-1...5 bar	BBQ	10...100 bar
	MAH	0...40 mbar	BMG	-1...9 bar	BBS	10...250 bar
	MAI	0...60 mbar	BMH	-1...15 bar	BBV	20...400 bar
					BBX	30...600 bar
	Working range (please have a look on further details, shown on Datasheet PV 31.11)					
	⑤	S	Standard			
		1	Option 1			
2		Option 2				
Special design features						
⑥	O	cleaning for oxygen service				
	N	NACE				
	Z	without				
Ambient / application condition						
⑦	D1	suitable for ambient temperature up to -60°C				
	O1	Offshore				
	ZZ	without				

Order code: ① ② ③ - ④ ⑤ B-1AMZ ⑥ ⑦

Please specify approvals and certificates via free text.
 C5 Flameproof Ex d IECEx-ATEX
 C4 SIL 2 for functional safety

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