

Diaphragm pressure switch, stainless steel switch enclosure

07/2016

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 stainless steel 316L, IP 66, NEMA 4X
- Setting ranges from 0 ... 16 mbar to 30 ... 600 bar, vacuum ranges
- Intrinsic safety Ex ia available
- 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	14174258	14174287
0 ... 100 mbar	14174300	14174302
0 ... 1 bar	14174303	14182869
0 ... 6 bar	14182870	14182872
0 ... 25 bar	14182875	14182876
10 ... 250 bar ¹⁾	14182878	14182880
30 ... 600 bar ¹⁾	14182881	14182882

¹⁾ Sensor: welded diaphragm (MWG)

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

Quick order code (for further details see data sheet PV 31.10)

Field no.	Code	Version				
Model						
①	MWB	low setting ranges from -100 ... 0 mbar up to 0 ... 100 mbar				
	MW-	medium setting ranges from -1 ... 0 bar up to 0 ... 40 bar				
	MWG	high setting ranges from 4 ... 40 bar up to 30 ... 600 bar, sensor welded diaphragm				
	MWH	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 31.10)					
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.
 C1 Intrinsic Safety Ex ia IECEx-ATEX
 C4 SIL 2 for functional safety

© 2016 WIKA Alexander Wiegand SE & Co. KG, all rights reserved.
 The specifications given in this document represent the state of engineering at the time of publishing.
 We reserve the right to make modifications to the specifications and materials.