

Compact pressure switch

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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, highly viscous or contaminated media, also in aggressive ambience
- For measuring points with limited space, e.g. control panels

Special features

- No power supply needed for switching of electrical loads
- Robust switch enclosure from aluminium alloy or stainless steel, IP66, NEMA 4X
- Setting ranges from 0.2 ... 1.2 bar to 200 ... 1,000 bar, vacuum ranges
- 1 set point, SPDT or DPDT, high switching power up to AC 250 V, 15 A



Order numbers

Switch enclosure		Aluminium, epoxy resin coated	
Process connection		1/4 NPT-F	
Electrical connection		1/2 NPT-F	
Contacts		A - 1 x SPDT, silver contact	B - 1 x SPDT, silver contact, hermetically sealed with argon gas
Setting range	Measuring element		
-1 ... -0.2 bar	V	14147719	14147732
0.1 ... 2.5 bar	M	14147720	14147733
0.2 ... 1.2 bar	T	14147722	14147734
0.5 ... 2.5 bar	M	14147723	14147735
0.8 ... 6 bar	M	14147724	14147736
1.6 ... 10 bar	M	14147725	14147737
4 ... 25 bar	M	14147726	14147738
8 ... 40 bar	P	14147727	14147739
16 ... 100 bar	P	14147729	14147740
40 ... 250 bar	P	14147730	14147741
80 ... 400 bar	P	14147731	14147743

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

Quick order code (for further details see data sheet PV 33.30)

Field no.	Code	Version				
Switch enclosure						
①	2	Aluminium, epoxy resin coated				
	4	Stainless steel 316L				
Measuring elements and wetted parts						
②	V	Diaphragm NBR				
	T	Diaphragm PTFE				
	M	Diaphragm Inconel + O-ring FPM				
	P	Piston stainless steel 316, O-ring FPM				
	G	Diaphragm Hastelloy C276				
Contacts						
③	A	1 x SPDT, silver contact				
	B	1 x SPDT, silver contact, hermetically sealed with argon gas				
	C	1 x SPDT, gold-plated contact, hermetically sealed with argon gas				
	G	1 x DPDT, silver contact				
	H	1 x DPDT, silver contact, hermetically sealed with air				
Setting range (in bar)						
④		Setting range	Measuring element		Setting range	Measuring element
	BAA	-1 ... -0.2 bar	V	BAG	10 ... 40 bar	M
	BAN	0.1 ... 2.5 bar	M	BAJ	16 ... 100 bar	P, G
	BAB	0.2 ... 1.2 bar	T	BAH	20 ... 100 bar	M
	BAC	0.5 ... 2.5 bar	M	BAQ	20 ... 220 bar	P, G
	BAD	0.8 ... 6 bar	M	BAK	40 ... 250 bar	P, G
	BAE	1.6 ... 10 bar	M	BAR	60 ... 250 bar	P, G
	BAO	3 ... 25 bar	P, G	BAL	80 ... 400 bar	P, G
	BAP	3.5 ... 70 bar	P, G	BAM	100 ... 600 bar	P, G
	BAF	4 ... 25 bar	M	BAS	100 ... 700 bar	P
	BAI	8 ... 40 bar	P, G	BAT	200 ... 1,000 bar	P
	Process connection					
	⑤	1	1/4 NPT-F			
		2	Adapter 1/2 NPT-M			
3		Adapter 1/2 NPT-F				
Electrical connection						
⑥	A	1/2 NPT-F				
	I	Adapter M20 x 1,5-F				
Special design features						
⑦	O	Cleaning for oxygen service				
	D	Wetted parts dried				
	N	NACE				
	Z	Without				
Ambient / application condition						
⑧	D1	Suitable for ambient temperature to -60°C				
	O1	Offshore				
	ZZ	Without				

Please specify approvals and certificates via free text.

C1 Intrinsic safety Ex ia IECEx-ATEX
C4 SIL 2 for functional safety

Order code:	PCS	①	②	③	B-	④	-B	⑤	⑥	S	⑦	-	⑧
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