

Compact differential pressure switch

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Applications

- Differential 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, liquid and aggressive media, also in aggressive ambience
- For measuring points with limited space, e.g. control panels
- Filter and level monitoring

Special features

- No power supply needed for switching of electrical loads
- Robust switch enclosure from aluminium alloy or stainless steel 316L, IP 66, NEMA 4X
- Setting ranges from 0 ... 160 mbar up to 0 ... 40 bar and high working pressure (static pressure) and high one side pressure up to 250 bar
- Intrinsic safety Ex ia available
- 1 set point, SPDT or DPDT, high switching power up to AC 250 V, 15 A



Order numbers

Switch enclosure	Aluminium, epoxy resin coated	
Contacts	A - 1 x SPDT, silver contact	G - 1 x DPDT, silver contact
Process Connection	2x 1/4 - 18 NPT-F	
Electrical connection	2x 1/2 -14 NPT-F	
Static pressure	40 bar	
Setting range		
0 ... 160 mbar	14170201	14170203
0 ... 400 mbar	14170204	14170205
0 ... 1 bar	14170207	14170209
0 ... 4 bar	14170210	14170212
0 ... 10 bar	14170213	14170214

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

Quick order code (for further details see data sheet PV 35.40)

Field no.	Code	Version		
Static and one-side pressure				
①	C	25 bar		
	L	40 bar		
	M	100 bar		
	H	160 bar		
	A	250 bar		
Model of Differential Cell				
②	L	L		
	H	H		
	V	V		
Switch enclosure				
③	2	aluminium, epoxy resin coated		
	4	stainless steel 316L		
Electric contacts				
④	A	1xSPDT, silver contact		
	B	1xSPDT, silver contact, hermetically sealed with argon gas		
	C	1xSPDT, gold-plated contact, hermetically sealed with argon gas		
	G	1xDPDT, silver contact		
Setting range				
⑤	MAK	0...160 mbar	BBH	0...4 bar
	MAM	0...250 mbar	BBI	0...6 bar
	MAN	0...400 mbar	BBJ	0...10 bar
	MAO	0...600 mbar	BBK	0...16 bar
	BBD	0...1 bar	BBL	0...25 bar
	BBF	0...1,6 bar	BBM	0...40 bar
	BBG	0...2,5 bar		
Process Connection				
⑥	B	2x1/4 - 18 NPT-F		
	2	Adaptor 1/2 -14NPT-M		
	3	Adaptor 1/2 -14NPT-F		
	4	Adaptor G 1/2 A-M		
	5	Adaptor G 1/4 A-M		
	6	Adaptor G 1/4 -F		
Electrical connection				
⑦	L	2x1/2 -14 NPT-F		
	I	Adaptor M20x1,5-F		
	H	Adaptor 3/4 -14 NPT-F		
Special design features				
⑧	D	wetted parts dried		
	O	Cleaning for oxygen service		
	N	NACE		
	Z	without		
Ambient/application condition				
⑨	O1	Offshore		
	ZZ	without		

Order code: DC - B- M

Please specify approvals and certificates via free text.
 C1 Intrinsic Safety Ex ia IECEx-ATEX
 C4 SIL2 for functional safety

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