

- 1: 4-digit alphanumeric display  
2: LEDs (display unit / switching status)  
3: Programming button



Product characteristics  
Electronic pressure monitor

Quick disconnect

Function programmable

Analog input

Process connection: G ¼ I

2 switching outputs

4-digit alphanumeric display

Measuring range: 0...10 bar

Application

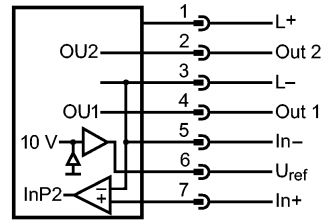
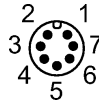
Application	Type of pressure: relative pressure Liquids and gases
Pressure rating [bar]	50
Bursting pressure min. [bar]	150
Medium temperature [°C]	-25...80
Electrical data	
Electrical design	DC PNP/NPN
Operating voltage [V]	18...30 DC
Current consumption [mA]	< 90
Insulation resistance [MΩ]	> 100 (500 V DC)
Protection class	III
Reverse polarity protection	yes
Inputs	
Analog input	0...20 mA / 0...10 V
Load / input resistance [kΩ]	0...20 mA: 0.3 / 0...10 V: 90
Outputs	
Output	2 switching outputs
Output function	2 x normally open / closed programmable
Current rating [mA]	250
Voltage drop [V]	< 2
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	≤ 170
Measuring / setting range	

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Display unit	bar, psi, MPa
Measuring range [bar]	0...10
Setting range	
Set point, SP [bar]	-2.46...10.00 *)
Reset point, rP [bar]	-2.50...9.96 *)
in steps of [bar]	0.02
Accuracy / deviations	
Deviations (% of value of measuring range)	
Characteristics deviation	< ± 0.6
Temperature drift ( / 10 K)	< ± 0.3
in the temperature range [°C]	0...80
Analog input	
Characteristics deviation	< ± 0.3
Temperature drift ( / 10 K)	< ± 0.1
in the temperature range [°C]	0...80
Reaction times	
Power-on delay time [s]	0.2
Min. response time switching output [ms]	3
Delay time programmable dS, dr [s]	0, 0.1...50
Damping for the switching output (dAP) [s]	0...4
Max. response time analog input [ms]	3
Integrated watchdog	yes
Software / programming	
Programming options	hysteresis / window function; N.O. / N.C; output polarity; current / voltage input; damping; calibration of displayed values; display can be rotated / deactivated; display unit
Adjustment of the switch point	Programming button
Environment	
Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 65
Tests / approvals	
EMC	
	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated: 10 V/m
	EN 61000-4-4 Burst: 2 kV
	EN 61000-4-6 HF conducted: 10 V
Shock resistance	DIN IEC 68-2-27: 50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6: 20 g (10...2000 Hz)
MTTF [Years]	152
Mechanical data	
Process connection	G ¼ I
Materials (wetted parts)	stainless steel (303S22); ceramics; FPM (Viton)
Housing materials	stainless steel (303S22); PBT (Pocan); PC (Makrolon); PA; FPM (Viton)
Switching cycles min.	100 million
Weight [kg]	0.294
Displays / operating elements	
Display	Display unit 3 x LED green Display mode 3 x LED green Function display 4-digit alphanumeric display Measured values 4-digit alphanumeric display
Electrical connection	
Connection	M12 connector; gold-plated contacts
<b>Wiring</b>	

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Programming of the output function:  
 Hno = hysteresis / normally open  
 Hnc = hysteresis / normally closed  
 Fno = window function / normally open  
 Fnc = window function / normally closed



Complementary outputs:  
 output 1: = Hno, output 2: = Hnc  
 (with the same SP / rP)

Remarks

Remarks

\*) differential pressure

Pack quantity

[piece]

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