

1: 7-segment LED display
2: Programming button



Product characteristics

Electronic pressure monitor

Quick disconnect

Function programmable

Process connection: 1/4" NPT I

Switching output

7-segment LED display

Measuring range: -1...1 bar / -30...30 inHg / -100...100 kPa

Application

Application

Type of pressure: relative pressure
Liquids and gases

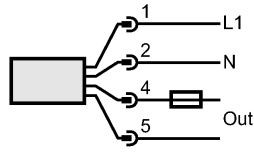
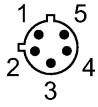
Pressure rating	20 bar	590 inHg	2000 kPa
Bursting pressure min.	50 bar	1476 inHg	5000 kPa
Medium temperature [°C]	-25...80		
Electrical data			
Electrical design	AC / triac		
Operating voltage [V]	85...265 AC		
Nominal voltage [V]	90...250 AC (45...65 Hz)		
Voltage tolerance [%]	-5 / +10		
Current consumption [mA]	< 10		
Insulation resistance [MΩ]	> 100 (500 V DC)		
Protection class	II		
Reverse polarity protection	no		
Outputs			
Output	Switching output		
Output function	normally open / closed programmable		
Current rating [mA]	250; (...70 °C); 1000 (...60 °C); 1500 (...45 °C); 2500 (...20 °C)		
Voltage drop [V]	< 2		
Short-circuit proof	no		
Overload protection	no		
Switching frequency [Hz]	≤ 160		
Measuring / setting range			

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Measuring range	-1...1 bar	-30...30 inHg	-100...100 kPa
Setting range			
Set point, SP	-0.97...1.00 bar	-29...30 inHg	-97...100 kPa
Reset point, rP	-0.99...0.98 bar	-30...29 inHg	-99...98 kPa
in steps of	0.01 bar	1 inHg	1 kPa
Accuracy / deviations			
Accuracy / deviations (in % of the span)			
Switch point accuracy		< ± 1.0	
Linearity		< ± 0.5	
Hysteresis		< ± 0.1	
Repeatability **)		< ± 0.1	
Long-term stability ***)		< ± 0.1	
Temperature coefficients (TEMPCO) in the temperature range -25...80° C (in % of the span per 10 K)			
Greatest TEMPCO of the zero point		< ± 0.2	
Greatest TEMPCO of the span		< ± 0.3	
Reaction times			
Power-on delay time [s]		0.2	
Delay time programmable dS, dr [s]		0, 0.2,...10, 11,...50	
Damping for the switching output (dAP) [s]		0...4	
Integrated watchdog		yes	
Software / programming			
Programming options	hysteresis / window function; N.O. / N.C; on delay, off delay; 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]		224.58	
Mechanical data			
Process connection		¼" NPT I	
Materials (wetted parts)	stainless steel (303S22); ceramics; FPM (Viton)		
Housing materials	stainless steel (304S15); PC (Makrolon); PBT (Pocan); PA; FPM (Viton)		
Switching cycles min.		100 million	
Weight [kg]		0.379	
Displays / operating elements			
Display	Switching status LED red Function display 7-segment LED display Measured values 7-segment LED display		
Electrical connection			
Connection		1/2" UNF-Connector	
Wiring			

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Programming of the output function:
 Hno = hysteresis / N.O.
 Hnc = hysteresis / N.C.
 Fno = window function / N.O.
 Fnc = window function / N.C.



Note: miniature fuse to IEC60127-2 sheet 1,
 ≤ 5 A (fast acting)

Remarks
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n.c. = not connected
 **) with temperature fluctuations < 10 K
 ***) in % of the span per year
 Recommendation: check the unit for reliable function after a short circuit.

Pack quantity [piece]

1