

PE3222



Pressure sensor with display

PE-100PSBN14-KFPKG/US/ /E

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- 1 7-segment LED display
- 2 Programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
Measuring range [psi]	0...1000
Process connection	threaded connection 1/4" NPT external thread

Application

Application	for industrial applications
Media	liquids and gases
Conditionally suitable for	For gaseous media the application is limited to max. 25 bar.
Cannot be used for	oils
Medium temperature [°C]	-25...80
Min. bursting pressure [psi]	9000
Pressure rating [psi]	4500
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	20...30 DC
Current consumption [mA]	< 60
Protection class	II
Reverse polarity protection	yes
Power-on delay time [s]	0.2
Integrated watchdog	yes



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Inputs / outputs												
Number of inputs and outputs			Number of digital outputs: 1; Number of analog outputs: 1									
Outputs												
Total number of outputs			2									
Output signal			switching signal; analog signal; (configurable)									
Electrical design			PNP									
Number of digital outputs			1									
Max. voltage drop switching output DC [V]			2									
Permanent current rating of switching output DC [mA]			250									
Number of analog outputs			1									
Analog current output [mA]			4...20									
Max. load [Ω]			500									
Short-circuit protection			yes									
Type of short-circuit protection			yes (non-latching)									
Overload protection			yes									
Measuring/setting range												
Measuring range [psi]			0...1000									
Set point SP [psi]			10...999									
Reset point rP [psi]			5...995									
In steps of [psi]			5									
Accuracy / deviations												
Switch point accuracy [% of the final value]			< ± 1,5									
Repeatability [% of the final value]			< ± 0,25; (with temperature fluctuations < 10 K)									
Characteristics deviation [% of the final value]			< ± 1,0									
Temperature drift per 10 K			< ± 0.3									
Reaction times												
Switching frequency for a given set response time of one output			Response time (dAP) [ms]	3	6	10	17	30	60	125	250	500
			Switching frequency [Hz]	170	80	50	30	16	8	4	2	1
Response time [ms]			at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 %									
Delay time programmable dS, dr [s]			0, 0,2,...10, 11,...50									
Max. response time analog output [ms]			3									
Software / programming												
Adjustment of the switch point			Programming button									
Operating conditions												
Ambient temperature [°C]			-25...80									

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Storage temperature	[°C]	-40...100
Protection		IP 67

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)

Mechanical data

Material	EPDM/X; FKM; NBR; PBT; PC; stainless steel (1.4301 / 304)	
Materials (wetted parts)	EPDM/X; ceramics; stainless steel (1.4305 / 303)	
Min. pressure cycles	100 million	
Process connection	threaded connection 1/4" NPT external thread	

Displays / operating elements

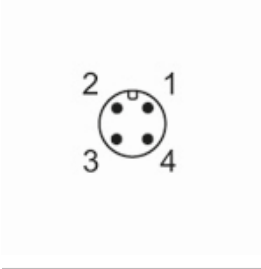
Display	Switching status	LED, red
	Function display	7-segment LED display
	Measured values	7-segment LED display

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

