

PN3223



Pressure sensor with display

PN-040PSBN14-KFPKG/US/ IV

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Alternative articles: PN2223

When selecting an alternative article and accessories please note that technical data may differ!



- 1 7-segment LED display
- 2 programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
Measuring range [psi]	0...400
Process connection	threaded connection 1/4" NPT external thread

Application

Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-25...80
Min. bursting pressure [psi]	5075
Pressure rating [psi]	1500
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	20...30 DC
Current consumption [mA]	< 60
Protection class	III
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 analogue outputs: 1										
Outputs													
Total number of outputs			2										
Output signal			switching signal; analogue 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 analogue outputs			1										
Analogue current output [mA]			4...20										
Max. load [Ω]			500										
Short-circuit protection			yes										
Type of short-circuit protection			pulsed										
Overload protection			yes										
Measuring/setting range													
Measuring range [psi]			0...400										
Set point SP [psi]			4...400										
Reset point rP [psi]			2...398										
In steps of [psi]			2										
Accuracy / deviations													
Switch point accuracy [X16]			< ± 1,5										
Repeatability [X16]			< ± 0,25; (with temperature fluctuations < 10 K)										
Characteristics deviation [X16]			< ± 1,0										
Temperature drift per 10 K			< ± 0.3										
Response 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; switch point (SPx) = 70 %; reset point (rPx) = 30 %										
Delay time programmable dS, dr [s]			0, 0,2,...10, 11,...50										
Max. response time analogue output [ms]			3										
Software / programming													
Adjustment of the switch point			programming button										
Operating conditions													
Ambient temperature [°C]			-25...80										
Storage temperature [°C]			-40...100										
Protection			IP 67										

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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	
Materials	EPDM/X; FKM; NBR; PBT; PC; stainless steel (1.4301 / 304)
Materials (wetted parts)	FKM; 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.

Electrical connection

Connector: 1 x M12; coding: A



Connection

