

PN3229



Pressure sensor with display

PN-002HRBN14-KFPKG/US/ IV

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Alternative articles: PN2209

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 analog outputs: 1
Measuring range [inHg]	-30...20
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 [inHg]	1500
Pressure rating [inHg]	600
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 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 [inHg]			-30...20									
Set point SP [inHg]			-29...20									
Reset point rP [inHg]			-29.5...19.5									
In steps of [inHg]			0.5									
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 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)

Mechanical data

Material	EPDM/X; FKM; NBR; PBT; PC; PTFE; 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

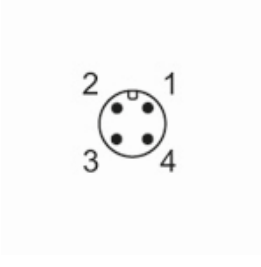
Display	Switching status	LED, red
	Function display	7-segment LED display
	Measured values	7-segment LED display

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

