



Pressure sensor with display

PE-003PRBN14-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 analogue outputs: 1
Measuring range [psi]	0...30
Process connection	threaded connection 1/4" NPT external thread

Application

Application	for industrial applications
Media	liquids and gases
Cannot be used for	oils
Medium temperature [°C]	-25...80
Min. bursting pressure [psi]	725
Pressure rating [psi]	290
Type of pressure	relative pressure

Electrical data

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

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
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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...30										
Set point SP [psi]	0.3...30										
Reset point rP [psi]	0.1...29.8										
In steps of [psi]	0.2										
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										
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 65										

PE3226



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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; PTFE; 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.	
Electrical connection		

Connector: 1 x M12; coding: A

