

PN7224



Pressure sensor with display

PN-015PRBN14-QFPKG/US/ IV

Article no longer available - archive entry

Alternative articles: PN7204

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: 2
Measuring range [psi]	0...150
Process connection	threaded connection 1/4" NPT external thread

Application

Special feature	Gold-plated contacts
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-25...80
Min. bursting pressure [psi]	2000
Pressure rating [psi]	700
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 60
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes



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Power-on delay time	[s]	0.2										
Integrated watchdog		yes										
Inputs / outputs												
Number of inputs and outputs		Number of digital outputs: 2										
Outputs												
Total number of outputs		2										
Output signal		switching signal										
Electrical design		PNP										
Number of digital outputs		2										
Output function		normally open / normally closed; (parameterisable)										
Max. voltage drop switching output DC		[V]	2									
Permanent current rating of switching output DC		[mA]	250									
Short-circuit protection		yes										
Type of short-circuit protection		pulsed										
Overload protection		yes										
Measuring/setting range												
Measuring range		[psi]	0...150									
Set point SP		[psi]	3...150									
Reset point rP		[psi]	1...148									
In steps of		[psi]	2									
Accuracy / deviations												
Switch point accuracy		[X16]	< ± 1,0									
Repeatability		[X16]	< ± 0,25; (with temperature fluctuations < 10 K)									
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									
Software / programming												
Adjustment of the switch point		programming button										
Parameter setting options		hysteresis / window; normally open / normally closed; switch-on/switch-off delay; Damping										
Operating conditions												
Ambient temperature		[°C]	-25...80									
Storage temperature		[°C]	-40...100									
Protection		IP 65										

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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; PA; PBT; PC; PTFE; stainless steel (1.4301 / 304)	
Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; FKM	
Min. pressure cycles	100 million	
Process connection	threaded connection 1/4" NPT external thread	
Displays / operating elements		
Display	switching status	2 x 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; Contacts: gold-plated



Connection

