



Pressure sensor with display

PN-2,5-RDR14-KFPKG/US/ IV

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Alternative articles: PE3006

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 [bar]	0...2.5
Process connection	threaded connection G 1/4 internal thread

Application

Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-25...80
Min. bursting pressure [bar]	50
Pressure rating [bar]	20

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



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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 [bar]		0...2.5								
Set point SP [bar]		0.125...2.5								
Reset point rP [bar]		0.075...2.45								
In steps of [bar]		0.025								
Accuracy / deviations										
Repeatability [% of the final value]		< ± 0,25; (with temperature fluctuations < 10 K)								
Characteristics deviation [% of the final value]		< ± 2,0								
Temperature drift per 10 K		< ± 0.3								
Response times										
Switching frequency for a given set response time of one output		Response[ms] time (dAP)		15	20	30	50	90	170	330
		Switching [Hz] frequency		50	35	30	20	15	9	5
Response time [ms]		at rectangular pressure characteristic; switch point (SPx) = 70 %; reset point (rPx) = 30 %								
Delay time programmable dS, dr [s]		0, 0,2, 0,4,...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								

PN8056



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Tests / approvals		
EMC	IEC 801/2 ESD	4 kV CD / 8 kV AD
	IEC 801/3 HF	10 V/m
	IEC 801/4 Burst	2 kV
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	stainless steel (316L/1.4404); PBT; PC; NBR; EPDM/X; FKM; PTFE	
Materials (wetted parts)	stainless steel (316Ti/1.4571); ceramics; FKM	
Min. pressure cycles	100 million	
Process connection	threaded connection G 1/4 internal 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

