PN8023

Pressure sensor with display

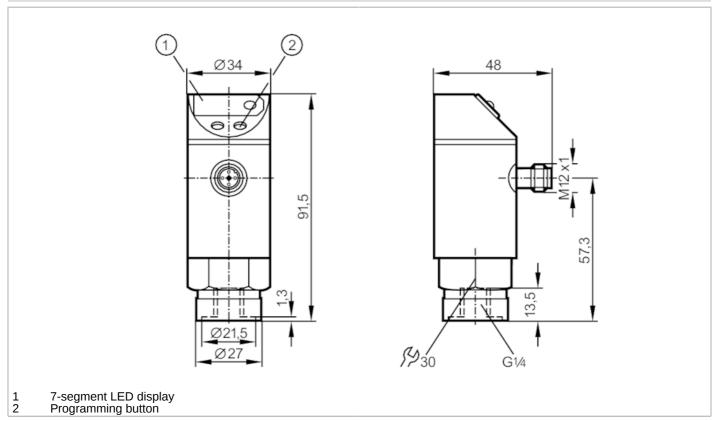
PN-025-SBR14-KFPKG/US/ /V



Article no longer available - archive entry

Alternative articles: PN3003

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





Product characteristics					
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1			
Measuring range	[bar]	025			
Process connection		threaded connection G 1/4 Internal thread			
Application					
Application		for industrial applications			
Media		liquids and gases			
Medium temperature	[°C]	-2580			
Min. bursting pressure	[bar]	350			
Pressure rating	[bar]	100			
Type of pressure		relative pressure			
Electrical data					
Operating voltage	[V]	2030 DC			
Current consumption	[mA]	< 60			
Inputs / outputs					
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1			

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Total number of outputs	Outputs										
Electrical design	Total number of outputs						2				
Max. voltage drop switching of countput DC Permanent current rating of switching output DC Permanent Current Cur	Output signal				switch	ing signal;	analog s	signal; (co	nfigurable)		
Max. voltage drop switching output DC	Electrical design						PNP				
Mary	Number of digital outputs						1				
Number of analog output DC Number of analog outputs 1 1 1 1 1 1 1 1 1	=	[V]	2								
Max. load [0]	· ·	[mA]					250				
Max. load [Q] 500 Measuring range (bar) 025 Set point SP (bar) 1.2525 Reset point rP (bar) 0.7524.5 In steps of (bar) 0.7524.5 In steps of (bar) 0.7524.5 Accuracy Ideviations Switch point accuracy 6 of the final value of th	Number of analog outputs						1				
Measuring range [bar] 025 Set point SP [bar] 1.2525 Reset point rP [bar] 0.7524.5 In steps of [bar] 0.25 Accuracy / deviations Switch point accuracy (% of the final value) Repeatability (% of the final value) < ± 0.25; (with temperature fluctuations < 10 K)	Analog current output	[mA]					420)			
Measuring range Earl 1.2525	Max. load	[Ω]					500				
Set point SP [bar] 1.2525 1.25	Measuring/setting range										
Reset point rP Bar	Measuring range	[bar]					025	5			
In steps of Ipar Ipar Ipar Ipar Ipar	Set point SP	[bar]									
Switch point accuracy (% of the final value) (% of the final valu	Reset point rP	[bar]					0.752	4.5			
Switch point accuracy [% of the final value] < ± 2,0 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 Reaction times Switching frequency for a given set response time of one output Response[ms] time (dAP) 15	In steps of	[bar]	0.25								
Repeatability	Accuracy / deviations										
% of the final value Characteristics deviation % of the final value Temperature drift per 10 K	-		< ± 2,0								
Characteristics deviation [% of the final value] < ± 2,0			$< \pm 0,25$; (with temperature fluctuations < 10 K)								
Reaction times Response [ms] 15 20 30 50 90 170 330 30 30 30 30 30 30	Characteristics deviation		< ± 2,0								
Reaction times Switching frequency for a given set response time of one output Switching [H2] Switch			< ± 0.3								
Response time of one output Response [ms] time (dAP) Switching [Hz] frequency S0 35 30 20 15 9 5	Reaction times										
Response time [ms] Delay time programmable dS, dr Software / programming Adjustment of the switch point Operating conditions Ambient temperature [°C] Storage temperature [°C] Protection Tests / approvals EMC frequency at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 % 0, 0,2, 0,4,3 Programming button Programming button Programming button Programming button Programming button Profered 1P 67 Tests / approvals EMC IEC 801/2 ESD	Switching frequency for a given set response time of		time	[ms]	15	20	30	50	90	170	330
Delay time programmable dS, dr					50	35	30	20	15	9	5
Software / programming Adjustment of the switch point Programming button Operating conditions Ambient temperature [°C] -2580 Storage temperature [°C] -40100 Protection IP 67 Tests / approvals EMC IEC 801/2 ESD 4 kV CD / 8 kV AD IEC 801/3 HF 10 V/m	Response time	[ms]						(x) = 30 %			
Adjustment of the switch point Operating conditions Ambient temperature [°C] -2580 Storage temperature [°C] -40100 Protection IP 67 Tests / approvals EMC IEC 801/2 ESD 4 kV CD / 8 kV AD IEC 801/3 HF 10 V/m		[s]	0, 0,2, 0,4,3								
Programming button	Software / programming										
Ambient temperature [°C] -2580 Storage temperature [°C] -40100 Protection IP 67 Tests / approvals EMC IEC 801/2 ESD 4 kV CD / 8 kV AD IEC 801/3 HF 10 V/m	•		Programming button								
Storage temperature [°C]	Operating conditions										
Protection IP 67 Tests / approvals IEC 801/2 ESD 4 kV CD / 8 kV AD IEC 801/3 HF 10 V/m	Ambient temperature	[°C]	-2580								
Tests / approvals EMC IEC 801/2 ESD 4 kV CD / 8 kV AD IEC 801/3 HF 10 V/m	Storage temperature	[°C]	-40100								
EMC IEC 801/2 ESD 4 kV CD / 8 kV AD IEC 801/3 HF 10 V/m	Protection						IP 67	,			
IEC 801/3 HF 10 V/m	Tests / approvals										
	EMC		IEC 801/2	ESD			4	kV CD / 8	kV AD		
IEC 801/4 Burst 2 kV											
			IEC 801/4	Burst			2	kV			

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Mechanical data							
Material	br	brass nickel-plated; PBT; PC; PA					
Materials (wetted parts)	brass nicke	brass nickel-plated; ceramics; FKM; NBR; EPDM/X					
Min. pressure cycles		100 million					
Process connection	thread	threaded connection G 1/4 Internal thread					
Displays / operating element	s						
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



