Pressure sensor with display

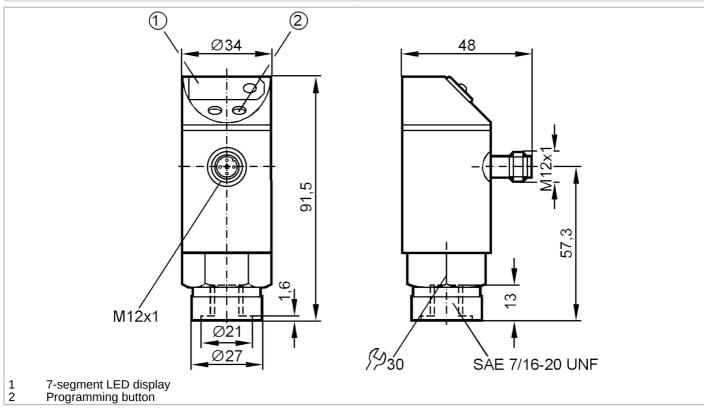
PN-100PSBU76-KFPKG/US/ /V



Article no longer available - archive entry

Alternative articles: PN3002

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





Product characteristics						
Number of inputs and outp	outs	Number of digital outputs: 1; Number of analog outputs: 1				
Measuring range	[psi]	01000				
Process connection		threaded connection 7/16" - 20 UNF Internal thread				
Application						
Application		for industrial applications				
Media		liquids and gases				
Conditionally suitable for	onally suitable for For gaseous media the application is limited to max. 25 bar.					
Medium temperature	[°C]	-2580				
Min. bursting pressure	[psi]	9000				
Pressure rating	[psi]	4500				
Type of pressure		relative pressure				
Electrical data						
Operating voltage	[V]	2030 DC				
Current consumption	[mA]	< 60				
Reverse polarity protection	า	yes				
Power-on delay time	[s]	0.2				
Integrated watchdog		yes				

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Number of injuts and outputs Number of digital outputs: 1; Number of analog outputs: 1	Inputs / outputs											
Total number of outputs 2 2 2 2 2 2 2 2 2	Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1									
Switching signal Switching signal; analog signal; (configurable)	Outputs											
PNP	Total number of outputs						2					
Max. voltage drop switching output DC	Output signal											
Max. voltage drop switching V output DC 250 250	Electrical design						PNP)				
Permanent current rating of switching output DC 250 25	Number of digital outputs											
Switching output DC 1		[V]	2									
Analog current output [mA]		[mA]	250									
Max. load [Q] 500	Number of analog outputs		1									
Short-circuit protection	Analog current output	[mA]	420									
Type of short-circuit protection yes (non-latching) Overload protection yes Measuring/setting range [psi] 01000 Set point SP [psi] 10999 Reset point rP [psi] 5995 In steps of [psi] 5 Accuracy / deviations Switch point accuracy < ± 1,5 (% 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 Respons(ms) 3 6 10 17 30 60 125 250 500 Response time [ms] at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 % Delay time programmable dS, dr (ms) 3 0, 0, 2,10, 11,50 Max. response time analog output	Max. load	[Ω]	500									
Protection Syes Constant Syes Constant Syes	Short-circuit protection		yes									
Measuring/setting range [psi] 01000 Set point SP [psi] 10999 Reset point rP [psi] 5995 In steps of [psi] 5 Accuracy / deviations Switch point accuracy [% of the final value] < ± 1,5			yes (non-latching)									
Measuring range [psi] 10999	Overload protection		yes									
Reset point SP	Measuring/setting range											
Reset point rP [psi] In steps of [psi] Accuracy / deviations Switch point accuracy [% of the final value] Characteristics deviation [% of the final value] Temperature drift per 10 K Reaction times Switching frequency for a given set response time of one output Response time [ms] Delay time programmable dS, [s] dr Max. response time analog output Software / programming Adjustment of the switch Accuracy / deviations 5	Measuring range	[psi]	01000									
In steps of [psi] 5 Accuracy / deviations Switch point accuracy [% of the final value] Repeatability [% of the final value] Characteristics deviation [% of the final value] Temperature drift per 10 K Reaction times Switching frequency for a given set response time of one output Response time [ms] Delay time programmable dS, dr Max. response time analog output Software / programming Adjustment of the switch Accuracy / deviations \$ < ± 1,5	Set point SP	[psi]	10999									
Accuracy / deviations Switch point accuracy [% of the final value] Repeatability [% of the final value] Characteristics deviation [% of the final value] Temperature drift per 10 K Reaction times Switching frequency for a given set response time of one output Response time [ms] Delay time programmable dS, [s] dr Max. response time analog output Software / programming Adjustment of the switch Adjustment of the switch Switch point accuracy [% of the final value] \$ < ± 0,25; (with temperature fluctuations < 10 K) \$ < ± 1,0 \$ < ± 0.3 \$ < ± 0.3 \$ < ± 0.3 \$	Reset point rP	[psi]	5995									
Switch point accuracy [% of the final value] Repeatability [% of the final value] Characteristics deviation [% of the final value] Temperature drift per 10 K Reaction times Switching frequency for a given set response time of one output Response time [ms] Delay time programmable dS, [s] dr Max. response time analog output Software / programming Adjustment of the switch Adjustment of the switch Repeatability $< \pm 0.25$; (with temperature fluctuations < 10 K) $< \pm 1.0$ $< \pm 0.3$ Software functional value] $< \pm 0.25$; (with temperature fluctuations < 10 K) $< \pm 0.0$ $< \pm $	In steps of	[psi]	5									
Repeatability [% of the final value] Characteristics deviation [% of the final value] Temperature drift per 10 K Reaction times Switching frequency for a given set response time of one output Response time [ms] at rectangular pressure characteristic; Set point (SPX) = 70 %; Reset point (rPX) = 30 % Delay time programming Max. response time analog output Software / programming Adjustment of the switch	Accuracy / deviations											
Repeatability [% of the final value] Characteristics deviation [% of the final value] Temperature drift per 10 K Reaction times Switching frequency for a given set response time of one output Response time [ms] Delay time programmable dS, dr Max. response time analog output Response time analog output Software / programming Adjustment of the switch		value]					< ± 1,	5				
Characteristics deviation [% of the final value] Temperature drift per 10 K Reaction times Switching frequency for a given set response time of one output Response time [ms] Delay time programmable dS, dr Max. response time analog output Adjustment of the switch Adjustment of the switch	Repeatability		$< \pm 0.25$; (with temperature fluctuations $< 10 \text{ K}$)									
[% of the final value] Temperature drift per 10 K Reaction times Switching frequency for a given set response time of one output Response time [Ms] Delay time programmable dS, dr Max. response time analog output [ms] Adjustment of the switch Action times Response in a lang of the final value Comparison of the switch Comparison of	<u> </u>	valuej										
Temperature drift per 10 K			< ± 1,0									
Switching frequency for a given set response time of one output Response time (dAP) SwitchingHz] 170 80 50 30 16 8 4 2 1 Response time [ms] Delay time programmable dS, dr Max. response time analog output Software / programming Adjustment of the switch Response time of time (dAP) SwitchingHz] 170 80 50 30 16 8 4 2 1 The programming and time of time (dAP) SwitchingHz] 170 80 50 30 16 8 4 2 1 The programming and the switch of the switch			< ± 0.3									
Switching frequency for a given set response time of one output Response time (dAP) SwitchingHz] 170 80 50 30 16 8 4 2 1 Response time [ms] Delay time programmable dS, dr Max. response time analog output Software / programming Adjustment of the switch Response time of time (dAP) SwitchingHz] 170 80 50 30 16 8 4 2 1 The programming and time of time (dAP) SwitchingHz] 170 80 50 30 16 8 4 2 1 The programming and the switch of the switch	Reaction times		_									
Response time [ms] at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 % Delay time programmable dS, [s] dr Max. response time analog output [ms] 3 Software / programming Adjustment of the switch	given set response time of		time	3	6	10	17	30	60	125	250	500
Delay time programmable dS, [s] 0, 0,2,10, 11,50 Max. response time analog [ms] 3 Software / programming Adjustment of the switch				170	80	50	30	16	8	4	2	1
dr Max. response time analog [ms] output Software / programming Adjustment of the switch Programming button	Response time	[ms]	at rectangula	ır pressu	re chara	cteristic	; Set poi	nt (SPx)	= 70 %;	Reset po	oint (rPx)	= 30 %
output Software / programming Adjustment of the switch Programming button		[s]	0, 0,2,10, 11,50									
Adjustment of the switch Programming button	-	[ms]	3									
	Adjustment of the switch		Programming button									
Operating conditions	Operating conditions											
Ambient temperature [°C] -2580	Ambient temperature	[°C] -2580										

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Storage temperature [°C]	-40100						
Protection	IP 67						
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 (102000 Hz)						
Mechanical data							
Material	EPDM/X; FKM; NBR; PBT; PC; stainless steel (1.4301 / 304)						
Materials (wetted parts)	FKM; ceramics; stainless steel (1.4305 / 303)						
Min. pressure cycles	100 million						
Process connection	threaded connection 7/16" - 20 UNF 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



Connection

