Pressure sensor with display

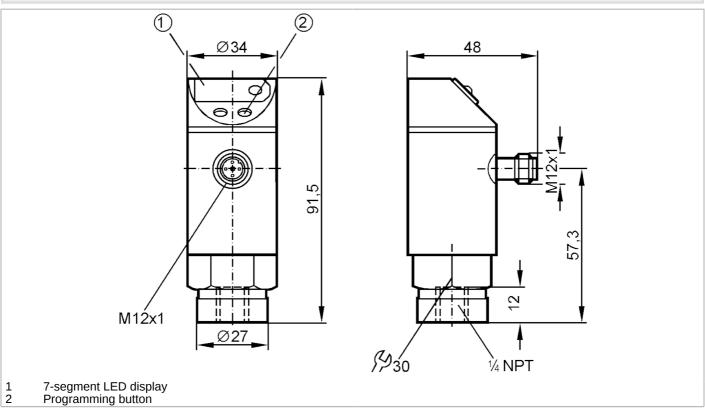
PN-600PSBN14-QFPKG/US/ /V



Article no longer available - archive entry

Alternative articles: PN7200

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: 2			
Measuring range	[psi]	06000			
Process connection		threaded connection 1/4" NPT external thread			
Application					
System		gold-plated contacts			
Application		for industrial applications			
Media		liquids and gases			
Conditionally suitable for		For gaseous media the application is limited to max. 25 bar.			
Medium temperature	[°C]	-2580			
Min. bursting pressure	[psi]	14000			
Pressure rating	[psi]	8500			
Type of pressure		relative pressure			
Electrical data					
Operating voltage	[V]	1830 DC			
Current consumption	[mA]	< 60			
Min. insulation resistance	[MΩ]	100; (500 V DC)			
Protection class		III			

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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	s: 2			
Outputs						J					
Total number of outputs						2					
Output signal		switching signal									
Electrical design		PNP									
Number of digital outputs		2									
Output function		normally open / closed; (configurable)									
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		yes (non-latching)									
Overload protection		yes									
Measuring/setting range											
Measuring range	[psi]	06000									
Set point SP	[psi]	606000									
Reset point rP	[psi]	305970									
In steps of	[psi]	30									
Accuracy / deviations											
Switch point accuracy [% of the final value]		< ± 1,0									
Repeatability		$< \pm 0,25$; (with temperature fluctuations < 10 K)									
[% of the final value] Temperature drift per 10 K		< ± 0.3									
Reaction times						1 = 0.0					
Switching frequency for a		Respons[ens]	3	6	10	17	30	60	125	250	500
given set response time of one output		time (dAP)									
		SwitchintHz] frequency	170	80	50	30	16	8	4	2	1
Response time	[ms]	at rectangula	ır pressı	ure chara	cteristic;	Set poin	t (SPx)	= 70 %; F	Reset po	int (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 / closed; switch-on/switch-off delay; Damping									
Operating conditions											
Ambient temperature	[°C]	-2580									
Storage temperature	[°C]	-40100									

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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; 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

