PN0022

Pressure sensor with display

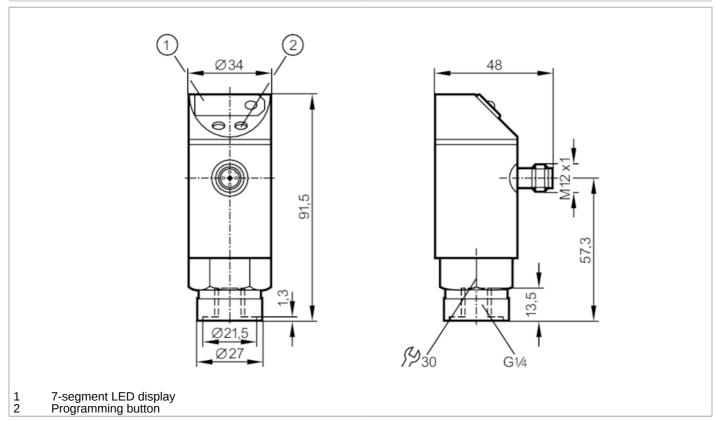
PN-100MSBR14-QFNKG/US/ /V



Article no longer available - archive entry

Alternative articles: PN7002

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	[MPa]	010					
Process connection		threaded connection G 1/4 Internal 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	[MPa]	65					
Pressure rating	[Mpa]	30					
Type of pressure		relative pressure					
Electrical data							
Operating voltage	[V]	1830 DC					
Current consumption	[mA]	< 60					
Min. insulation resistance	[MΩ]	100; (500 V DC)					

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Protection class					Ш					
Reverse polarity protection	yes									
Power-on delay time [s]	0.2									
Integrated watchdog		yes								
Inputs / outputs										
Number of inputs and outputs				Numbe	r of digit	al output	s: 2			
Outputs										
Total number of outputs					2					
Output signal				S	witching	signal				
Electrical design					NPN	J				
Number of digital outputs					2					
Output function			norr	nally ope	n / close	ed; (conf	igurable)		
Max. voltage drop switching [V] output DC	2									
Permanent current rating of [mA] switching output DC	250									
Short-circuit protection					yes					
Type of short-circuit protection	yes (non-latching)									
Overload protection	yes									
Measuring/setting range										
Measuring range [MPa]	010									
Set point SP [MPa]	0.110									
Reset point rP [MPa]	0.059.95									
In steps of [MPa]	0.05									
Accuracy / deviations										
Switch point accuracy [% of the final value]	< ± 1,0									
Repeatability			- L O 2E	(with to	mnorotu	ro fluotus	otiono <	10 1/)		
[% of the final value]	$< \pm 0.25$; (with temperature fluctuations < 10 K)									
Temperature drift per 10 K	<±0.3									
Reaction times										
Switching frequency for a given set response time of one output	Respons[ens] time (dAP)	3	6	10	17	30	60	125	250	500
one output	Switchin[Hz] frequency	170	80	50	30	16	8	4	2	1
Response time [ms]		ar press	ure char	acteristic	:: Set poi	nt (SPx)	= 70 %:	Reset po	oint (rPx)	= 30 %
Delay time programmable dS, [s]	at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 % 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									
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Operating conditions										
Operating conditions Ambient temperature [°C]					-258	80				

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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; PA; PBT; PC; stainless steel (1.4301 / 304)					
Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; FKM					
Min. pressure cycles	100 million					
Process connection	threaded connection G 1/4 Internal 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

