

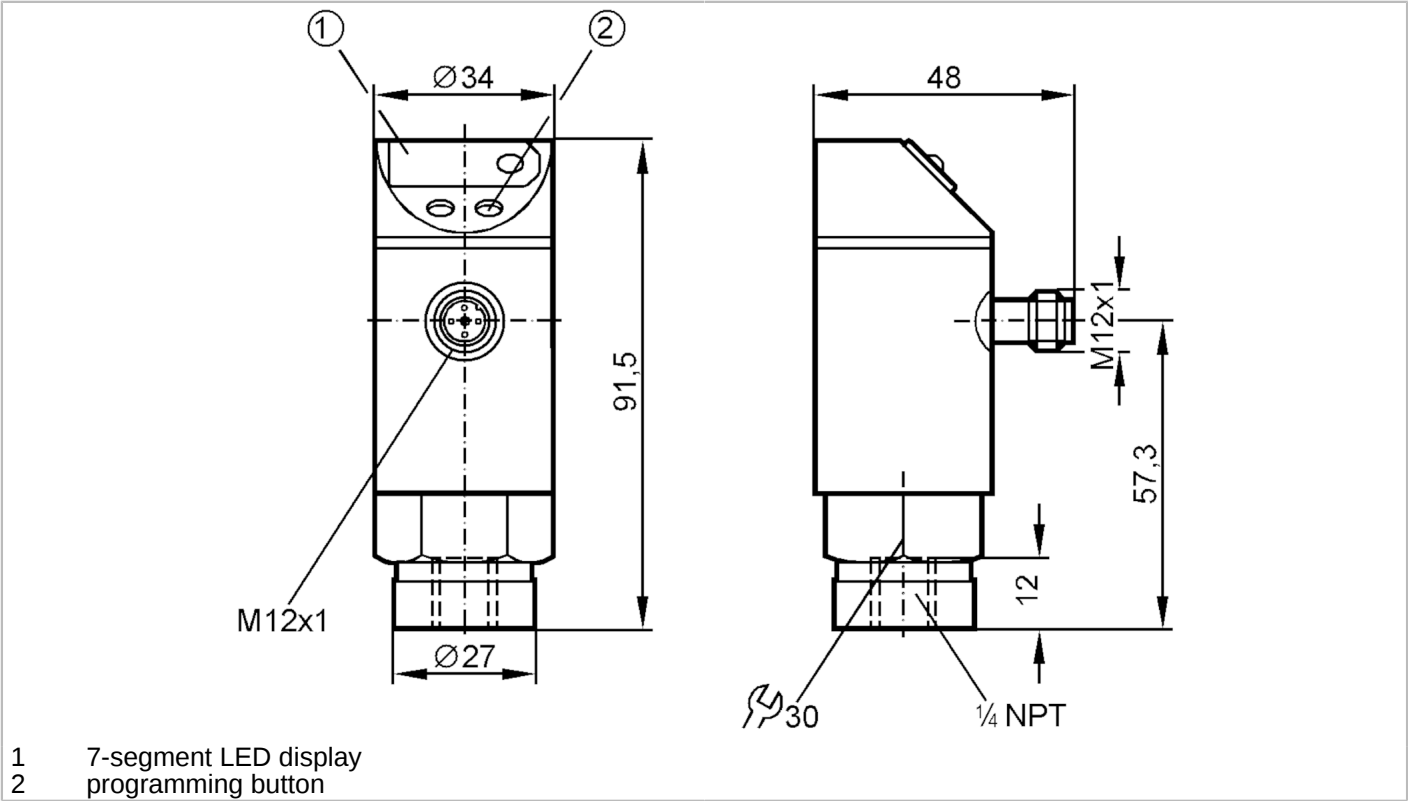
PN7220



Pressure sensor with display

PN-600PSBN14-QFPKG/US/ IV

Article no longer available - archive entry
replaced by: PN7200



Product characteristics	
Output signal	switching signal
Measuring range [psi]	0...6000
Process connection	threaded connection 1/4 NPT external thread
Application	
Special feature	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]	-25...80
Pressure rating [psi]	8500
Min. bursting pressure [psi]	14000
Type of pressure	relative pressure



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Electrical data												
Operating voltage	[V]	18...30 DC										
Current consumption	[mA]	< 60										
Min. insulation resistance	[MΩ]	100; (500 V DC)										
Protection class		III										
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: 2										
Outputs												
Total number of outputs		2										
Output signal		switching signal										
Electrical design		PNP										
Number of digital outputs		2										
Output function		normally open / normally closed; (parameterisable)										
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		pulsed										
Overload protection		yes										
Measuring/setting range												
Measuring range	[psi]	0...6000										
Set point SP	[psi]	60...6000										
Reset point rP	[psi]	30...5970										
In steps of	[psi]	30										
Accuracy / deviations												
Switch point accuracy [% of the final value]		< ± 1,0										
Repeatability [% of the final value]		< ± 0,25; (with temperature fluctuations < 10 K)										
Temperature drift per 10 K		< ± 0.3										
Response times												
Switching frequency for a given set response time of one output		Response time (dAP)	[ms]	3	6	10	17	30	60	125	250	500
		Switching frequency	[Hz]	170	80	50	30	16	8	4	2	1
Response time		[ms]	at rectangular pressure characteristic; switch point (SPx) = 70 %; reset point (rPx) = 30 %									
Delay time programmable dS, dr		[s]	0, 0,2,...10, 11,...50									

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Software / programming

Adjustment of the switch point	programming button
Parameter setting options	hysteresis / window; normally open / normally closed; switch-on/switch-off delay; Damping

Operating conditions

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
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 (10...2000 Hz)

Mechanical data

Materials	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.
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Electrical connection

Connector: 1 x M12; Contacts: gold-plated



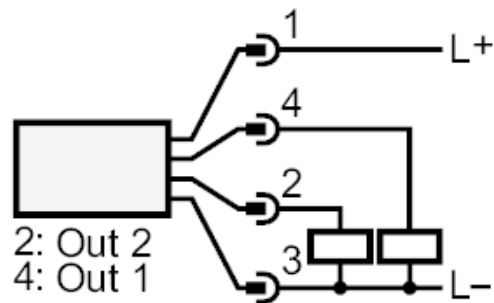
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Connection



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