

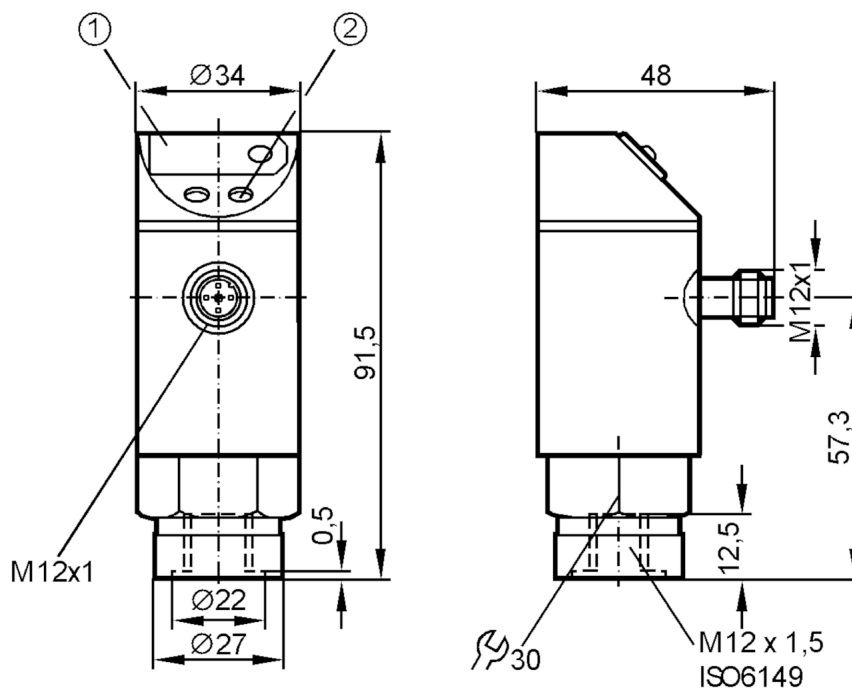
PN3121



Pressure sensor with display

PN-250-SBM12-KFPKG/US/ IV

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- 1 7-segment LED display
- 2 Programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
Measuring range [bar]	0...250
Process connection	threaded connection M12 x 1,5 Internal thread ISO 6149

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]	-25...80
Min. bursting pressure [bar]	850
Pressure rating [bar]	400
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	20...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



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PN-250-SBM12-KFPKG/US/ /V

Inputs / outputs											
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1									
Outputs											
Total number of outputs		2									
Output signal		switching signal; analog signal; (configurable)									
Electrical design		PNP									
Number of digital outputs		1									
Max. voltage drop switching output DC [V]		2									
Permanent current rating of switching output DC [mA]		250									
Number of analog outputs		1									
Analog current output [mA]		4...20									
Max. load [Ω]		500									
Short-circuit protection		yes									
Type of short-circuit protection		yes (non-latching)									
Overload protection		yes									
Measuring/setting range											
Measuring range [bar]		0...250									
Set point SP [bar]		2...250									
Reset point rP [bar]		1...248									
In steps of [bar]		1									
Accuracy / deviations											
Switch point accuracy [% of the final value]		< ± 1,5									
Repeatability [% 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		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; Set point (SPx) = 70 %; Reset point (rPx) = 30 %									
Delay time programmable dS, dr [s]		0, 0,2,...10, 11,...50									
Max. response time analog output [ms]		3									
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		
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		
Dimensions	[mm]	Ø 34 / L = 91.5
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 M12 x 1,5 Internal thread ISO 6149
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; Contacts: gold-plated



Connection

