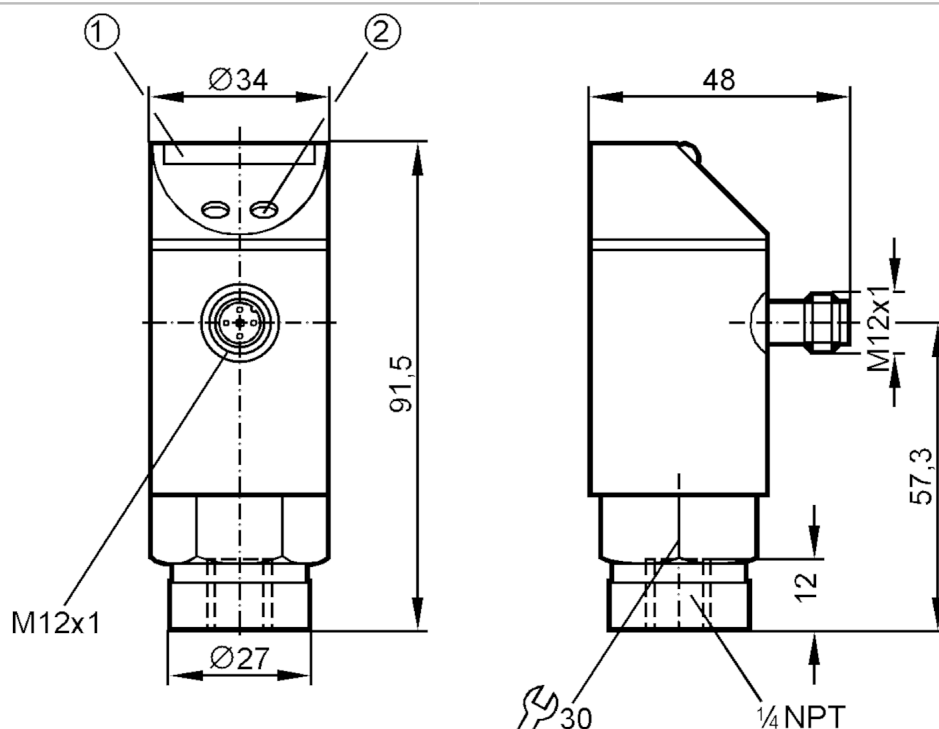


Pressure sensor with LED bar display

PB-100PSBN14-HFNKG/US/ IV

Article no longer available - archive entry



- 1 LED bar display
2 programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1
Measuring range [psi]	0...1000
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
Min. bursting pressure [psi]	9000
Pressure rating [psi]	4500
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 50
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	0.2



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Integrated watchdog	yes	
Inputs / outputs		
Number of inputs and outputs	Number of digital outputs: 1	
Outputs		
Total number of outputs	1	
Output signal	switching signal	
Electrical design	NPN	
Number of digital outputs	1	
Output function	normally open / normally closed; (parameterisable)	
Max. voltage drop switching output DC [V]	2	
Permanent current rating of switching output DC [mA]	250	
Switching frequency DC [Hz]	10	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	
Measuring/setting range		
Measuring range [psi]	0...1000	
Set point SP [psi]	50...1000	
Reset point rP [psi]	30...980	
In steps of [psi]	10	
Note on hysteresis	adjustable	
Accuracy / deviations		
Switch point accuracy [% of the final value]	< ± 2,0	
Repeatability [% of the final value]	< ± 0,25; (with temperature fluctuations < 10 K)	
Temperature drift per 10 K	< ± 0.3	
Software / programming		
Adjustment of the switch point	programming button	
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)



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Mechanical data

Materials	EPDM/X; FKM; NBR; PA; PBT; PC; stainless steel (304/1.4301)
Materials (wetted parts)	stainless steel (303/1.4305); ceramics; FKM
Min. pressure cycles	100 million
Process connection	threaded connection 1/4" NPT external thread

Displays / operating elements

Display	switching status	LED, yellow
	measured values	10 x LED, green Resolution 10% of the final value

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

