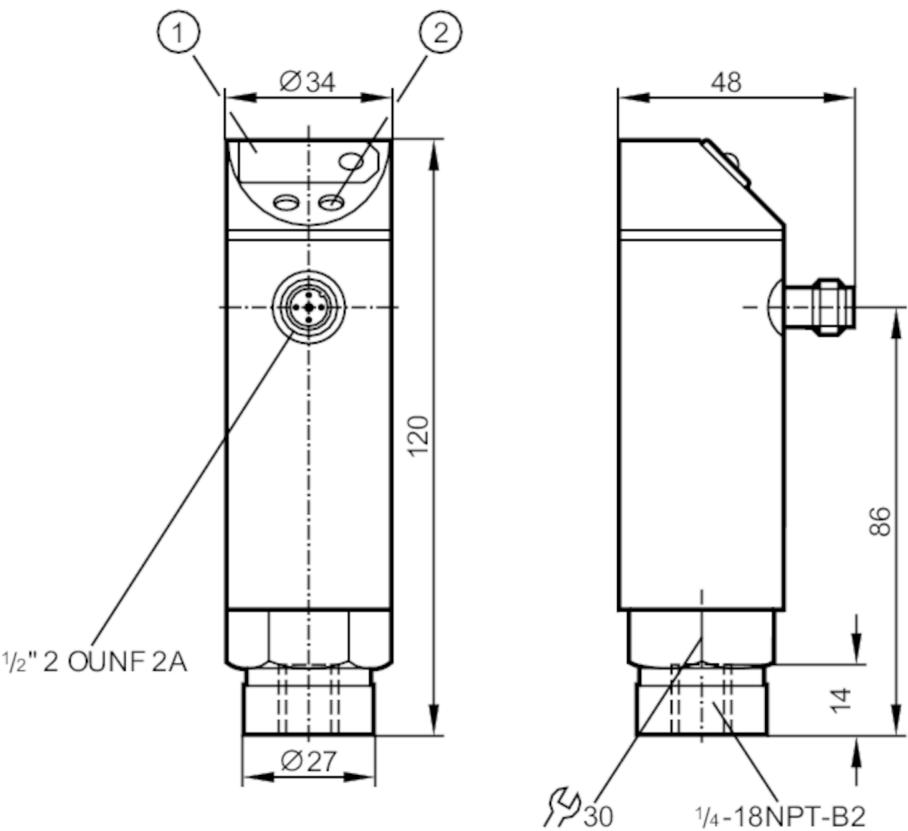


PN4222



Pressure sensor with display

PN-100-SBN14-HFBOW/LS/ /V



- 1 7-segment LED display
- 2 programming button



Product characteristics			
Number of inputs and outputs	Number of digital outputs: 1		
Measuring range	0...100 bar	0...1450 psi	0...10 MPa
Process connection	threaded connection 1/4" NPT internal thread		
Application			
Application	for industrial applications		
Media	liquids and gases		
Conditionally suitable for	use in gases at pressures > 25 bar only on request		
Medium temperature [°C]	-25...80		
Min. bursting pressure	650 bar	9400 psi	65 MPa
Pressure rating	300 bar	4350 psi	30 MPa
Type of pressure	relative pressure		
Electrical data			
Operating voltage tolerance [%]	5...10		
Operating voltage [V]	90...250 AC		
Nominal voltage AC [V]	< 250		
Current consumption [mA]	< 10		
Min. insulation resistance [MΩ]	100; (500 V DC)		



Pressure sensor with display

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Protection class	II		
Reverse polarity protection	no		
Power-on delay time [s]	0.2		
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	Triac		
Number of digital outputs	1		
Output function	normally open / normally closed; (parameterisable)		
Max. voltage drop switching output AC [V]	2		
Permanent current rating of switching output AC [mA]	250; ((...70 °C) 1000 (...60 °C) 1500 (...45 °C) 2500 (...20 °C))		
Switching frequency AC [Hz]	< 160		
Short-circuit proof	no		
Overload protection	no		
Measuring/setting range			
Measuring range	0...100 bar	0...1450 psi	0...10 MPa
Set point SP	1...99.9 bar	10...1450 psi	0.1...9.99 MPa
Reset point rP	0.5...99.5 bar	10...1440 psi	0.05...9.95 MPa
In steps of	0.1 bar	10 psi	0.01 MPa
Accuracy / deviations			
Switch point accuracy [X21]	< ± 1,0		
Repeatability [X21]	< ± 0,1; (with temperature fluctuations < 10 K)		
Linearity deviation [X21]	< ± 0,5		
Hysteresis deviation [X21]	< ± 0,1		
Long-term stability [X21]	< ± 0,1; (per year)		
Temperature coefficient zero point [X22]	< ± 0,2; (-25...80 °C)		
Temperature coefficient span [X22]	< ± 0,3; (-25...80 °C)		
Response times			
Delay time programmable dS, dr [s]	0, 0,2,...10, 11,...50		
Damping process value dAP [s]	0...4		
Software / programming			
Adjustment of the switch point	programming button		
Parameter setting options	hysteresis / window; normally open / normally closed; switch-on/switch-off delay; Damping; adaptation of displayed values; display can be rotated and switched off; Display unit		
Operating conditions			
Ambient temperature [°C]	-25...80		
Storage temperature [°C]	-40...100		
Protection	IP 67		

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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)
MTTF	[ANN]	225
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data		
Weight	[g]	358.4
Materials	stainless steel (1.4301 / 304); PC; PBT; PA; FKM	
Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; FKM	
Min. pressure cycles	100 million	
Process connection	threaded connection 1/4" NPT internal thread	
Restrictor element integrated	no (can be retrofitted)	

Displays / operating elements		
Display	switching status	LED, red
	function display	7-segment LED display
	measured values	7-segment LED display

Electrical connection	
Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting

Remarks	
Remarks	n.c. = not used
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x 1/2"; coding: C



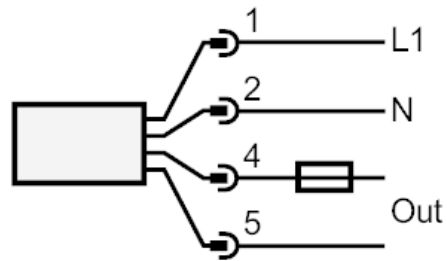
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Pressure sensor with display

PN-100-SBN14-HFBOW/LS/ /V

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 5 A fast acting