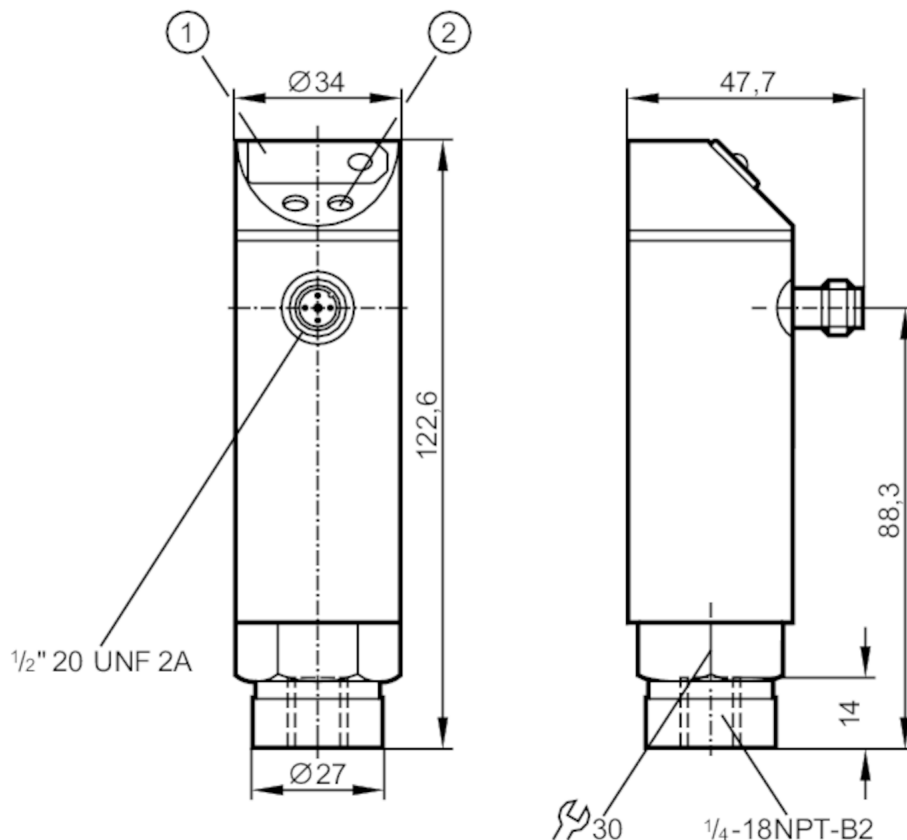


PN4220



Pressure sensor with display

PN-400-SBN14-HFBOW/LS/ IV



- 1 7-segment LED display
2 programming button



Application

Media	liquids and gases		
Conditionally suitable for	use in gases at pressures > 25 bar only on request		
Medium temperature [°C]	-25...80		
Pressure rating	600 bar	8700 psi	60 MPa
Min. bursting pressure	1000 bar	14500 psi	100 MPa
Type of pressure	relative pressure		

Electrical data

Operating voltage tolerance [%]	5...10
Operating voltage [V]	85...265 AC
Nominal voltage AC [V]	< 250
Current consumption [mA]	< 10
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	II
Reverse polarity protection	no
Power-on delay time [s]	0.2
Integrated watchdog	yes



Pressure sensor with display

PN-400-SBN14-HFBOW/LS/ /V

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...400 bar	0...5800 psi0...40 MPa
Set point SP		4...400 bar	60...5800 psi0.4...40 MPa
Reset point rP		2...398 bar	30...5770 psi0.2...39.8 MPa
In steps of		1 bar	10 psi0.1 MPa
Accuracy / deviations			
Switch point accuracy [% of the span]		< ± 1,0	
Repeatability [% of the span]		< ± 0,1; (with temperature fluctuations < 10 K)	
Linearity deviation [% of the span]		< ± 0,5	
Hysteresis deviation [% of the span]		< ± 0,1	
Long-term stability [% of the span]		< ± 0,1; (per year)	
Temperature coefficient zero point [% of the span / 10 K]		< ± 0,2; (-25...80 °C)	
Temperature coefficient span [% of the span / 10 K]		< ± 0,3; (-25...80 °C)	
Response times			
Delay time programmable dS, dr [s]		0, 0,2,...10, 11,...50	
Damping for the switching output 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	

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Pressure sensor with display

PN-400-SBN14-HFBOW/LS/ /V

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)
MTTF	[years]	224.58
Mechanical data		
Weight	[g]	389
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	yes	
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"		
		

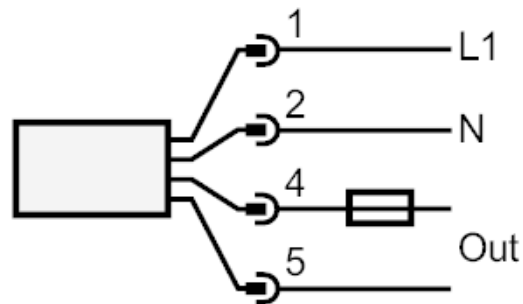
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Pressure sensor with display

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Connection



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