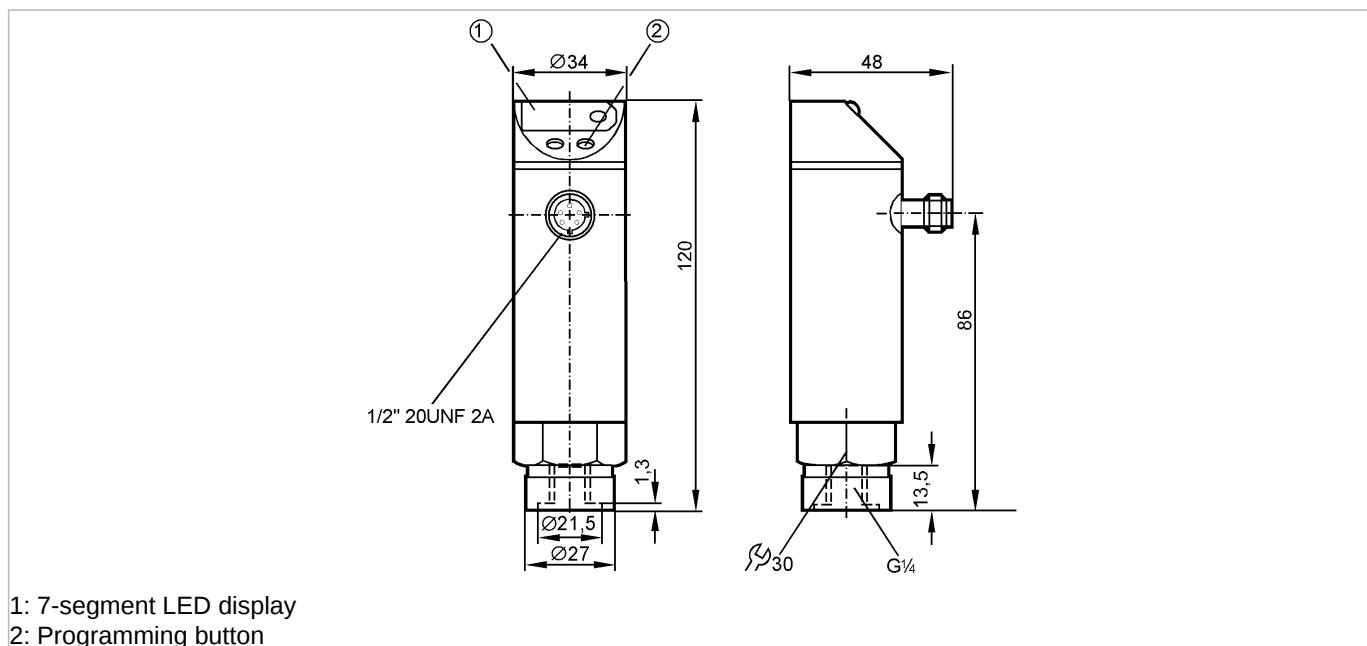


**PY9920**

PN-400-SBR14-HFBOW/LS/ /V

Pressure sensors



1: 7-segment LED display

2: Programming button

**Product characteristics**

Electronic pressure monitor

Quick disconnect

Function programmable

Process connection: G 1/4 I

Switching output

7-segment LED display

Measuring range: 0...400 bar / 0...5800 psi / 0...40 MPa

Application

Application	special application (see operating instructions)		
Pressure rating	600 bar	8700 psi	60 MPa
Bursting pressure min.	1000 bar	14500 psi	100 MPa
Medium temperature [°C]	-25...80		

Electrical data

Electrical design	AC / triac		
Operating voltage [V]	85...265 AC		
Nominal voltage [V]	90...250 AC (45...65 Hz)		
Voltage tolerance [%]	-5 / +10		
Current consumption [mA]	< 10		
Insulation resistance [MΩ]	> 100 (500 V DC)		
Protection class	II		
Reverse polarity protection	no		

Outputs

Output	Switching output		
Output function	normally open / closed programmable		
Current rating [mA]	250; (...70 °C); 1000 (...60 °C); 1500 (...45 °C); 2500 (...20 °C)		
Voltage drop [V]	< 2		
Short-circuit proof	no		

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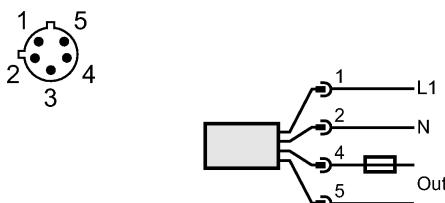
Pressure sensors

Overload protection		no	
Switching frequency	[Hz]	≤ 160	
Measuring / setting range			
Display unit		bar, psi, MPa	
Measuring range	0...400 bar	0...5800 psi	0...40 MPa
Setting range			
Set point, SP	4...400 bar	60...5800 psi	0.4...40.0 MPa
Reset point, rP	2...398 bar	30...5770 psi	0.2 ...39.8 MPa
in steps of	1 bar	10 psi	0.1 MPa
Accuracy / deviations			
Accuracy / deviations (in % of the span)			
Switch point accuracy		< ± 1.0	
Linearity		< ± 0.5	
Hysteresis		< ± 0.1	
Repeatability **)		< ± 0.1	
Long-term stability ***)		< ± 0.1	
Temperature coefficients (TEMPCO) in the temperature range -25...80° C (in % of the span per 10 K)			
Greatest TEMPCO of the zero point		< ± 0.2	
Greatest TEMPCO of the span		< ± 0.3	
Reaction times			
Power-on delay time	[s]	0.2	
Delay time programmable dS, dr	[s]	0, 0.2,...10, 11,...50	
Damping for the switching output (dAP)	[s]	0...4	
Integrated watchdog		yes	
Software / programming			
Programming options		hysteresis / window function; N.O. / N.C; on delay, off delay; damping; calibration of displayed values; display can be rotated / deactivated; display unit	
Adjustment of the switch point		Programming button	
Environment			
Ambient temperature	[°C]	-25...80	
Storage temperature	[°C]	-40...100	
Protection		IP 67	
Tests / approvals			
EMC		EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-6 HF conducted:	4 kV CD / 8 kV AD 10 V/m 2 kV 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			
Process connection		G ¼ I	
Materials (wetted parts)		stainless steel (303S22); ceramics; FKM	
Housing materials		FPM (Viton); PA; PBT (Pocan); PC (Makrolon); stainless steel (304S15)	
Switching cycles min.		100 million	

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Pressure sensors

Weight	[kg]	0.38
Displays / operating elements		
Display		Switching status LED red Function display 7-segment LED display Measured values 7-segment LED display
Electrical connection		
Connection		1/2" UNF-Connector
Wiring		
Programming of the output function: Hno = hysteresis / N.O. Hnc = hysteresis / N.C. Fno = window function / N.O. Fnc = window function / N.C.		
Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting)		
Remarks		
Remarks		n.c. = not connected **) with temperature fluctuations < 10 K ***) in % of the span per year Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	[piece]	1