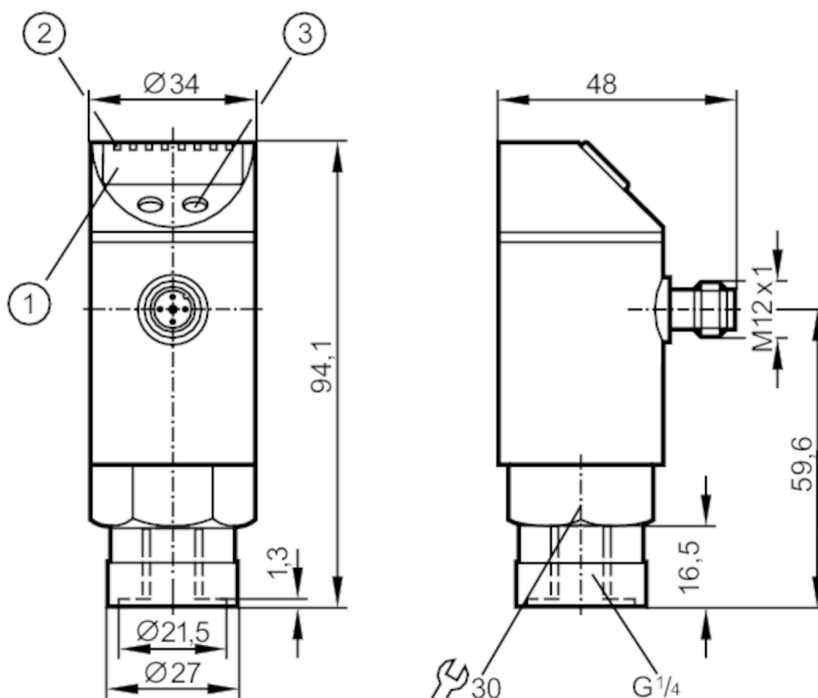


PN3060



Pressure sensor with display

PN-600-SBR14-KFPKG/US/ IV



- 1 alphanumeric display 4-digit
- 2 LEDs Display unit / switching status
- 3 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	800 bar	11600 psi	80 MPa
Min. bursting pressure	1200 bar	17400 psi	120 MPa
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	18...36 DC; (according to EN 50178 SELV/PELV)
Current consumption [mA]	< 50
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Overvoltage protection	yes; (< 40 V)
Power-on delay time [s]	0.3
Integrated watchdog	yes

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
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Pressure sensor with display

PN-600-SBR14-KFPKG/US/ IV

Outputs			
Total number of outputs	2		
Output signal	switching signal; analogue signal; (configurable)		
Electrical design	PNP		
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]	< 170		
Number of analogue outputs	1		
Analogue current output [mA]	4...20		
Max. load [Ω]	500		
Analogue voltage output [V]	0...10		
Min. load resistance [Ω]	2000		
Short-circuit protection	yes		
Type of short-circuit protection	pulsed		
Measuring/setting range			
Measuring range	0...600 bar	0...8700 psi	0...60 MPa
Set point SP	6...600 bar	100...8700 psi	0.6...60 MPa
Reset point rP	3...597 bar	50...8650 psi	0.3...59.7 MPa
In steps of	3 bar	50 psi	0.3 MPa
Factory setting		SP1 = 150 bar	rP1 = 138 bar
Accuracy / deviations			
Switch point accuracy [% of the span]	< ± 0,5		
Repeatability [% of the span]	< ± 0,1; (with temperature fluctuations < 10 K)		
Characteristics deviation [% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)		
Hysteresis deviation [% of the span]	< ± 1,0		
Long-term stability [% of the span]	< ± 0,05; (per 6 months)		
Temperature coefficient zero point [% of the span / 10 K]	0,2; (0...80 °C)		
Temperature coefficient span [% of the span / 10 K]	0,2; (0...80 °C)		
Response times			
Delay time programmable dS, dr [s]	0; 0,2...50		
Max. response time analogue output [ms]	3		

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Pressure sensor with display

PN-600-SBR14-KFPKG/US/ /V

Software / programming			
Parameter setting options		hysteresis / window; normally open / normally closed; switch-on/switch-off delay; Damping; Display unit; current/voltage output	
Operating conditions			
Ambient temperature	[°C]	-20...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 61000-4-5 Surge	0,5/1 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]	213
Mechanical data			
Weight		[g]	272.8
Materials		stainless steel (1.4301 / 304); stainless steel (1.4404 / 316L); PC; PBT; PEI; FKM; EPDM/X	
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; FKM	
Min. pressure cycles		50 million	
Process connection		threaded connection G 1/4 internal thread	
Displays / operating elements			
Display	Display unit		3 x LED, green
	switching status		LED, yellow
	function display		alphanumeric display, 4-digit
	measured values		alphanumeric display, 4-digit
Display unit		bar; psi; MPa	
Remarks			
Notes		discontinued article	
Pack quantity		1 pcs.	
Electrical connection			
Connector: 1 x M12; Contacts: gold-plated			
			

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Connection

