

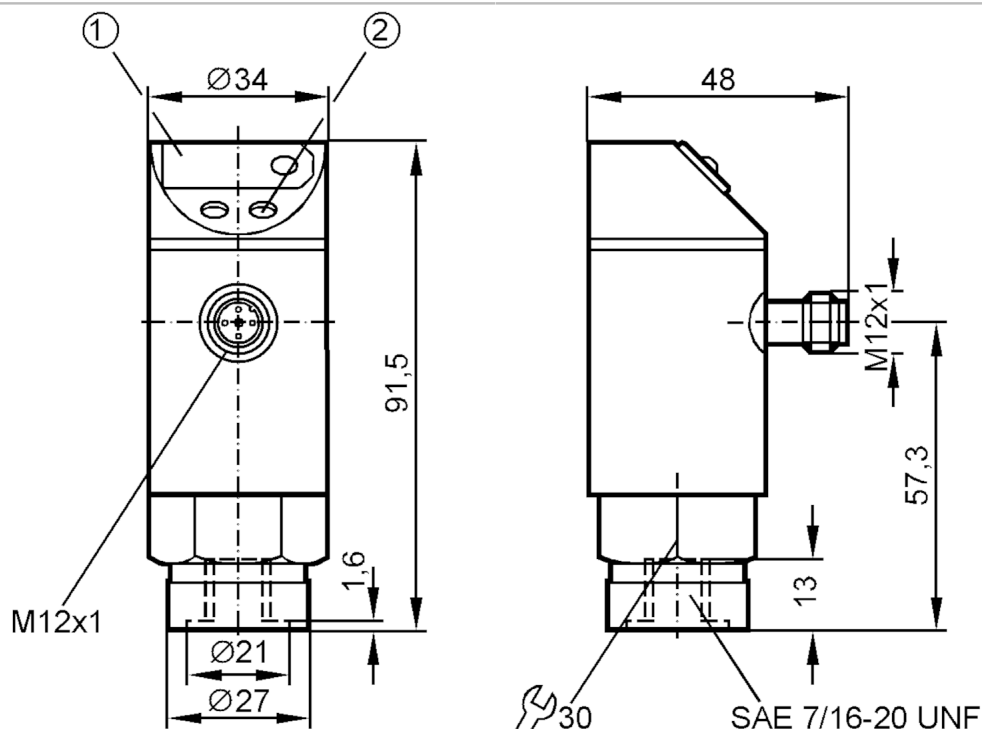
PN7320



Pressure sensor with display

PN-600PSBU76-QFPKG/US/ IV

Article no longer available - archive entry



- 1 7-segment LED display
- 2 Programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Measuring range [psi]	0...6000
Process connection	threaded connection 7/16" - 20 UNF Internal thread

Application

System	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]	14000
Pressure rating [psi]	8500
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 60
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: 2
Outputs	
Total number of outputs	2
Output signal	switching signal
Electrical design	PNP
Number of digital outputs	2
Output function	normally open / closed; (configurable)
Max. voltage drop switching output DC [V]	2
Permanent current rating of switching output DC [mA]	250
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes
Measuring/setting range	
Measuring range [psi]	0...6000
Set point SP [psi]	60...6000
Reset point rP [psi]	30...5970
In steps of [psi]	30
Accuracy / deviations	
Switch point accuracy [% of the final value]	$< \pm 1,0$
Repeatability [% of the final value]	$< \pm 0,25$; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the final value]	$< \pm 0,25$ (BFSL) / $< \pm 0,5$ (LS)
Temperature drift per 10 K	$< \pm 0.3$
Reaction times	
Switching frequency for a given set response time of one output	Response time [ms] (dAP)
	Switching frequency [Hz]
	3 6 10 17 30 60 125 250 500
	170 80 50 30 16 8 4 2 1
Response time [ms]	at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 %
Delay time programmable dS, dr [s]	0, 0,2,...10, 11,...50
Software / programming	
Adjustment of the switch point	Programming button
Parameter setting options	hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping
Operating conditions	
Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100

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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)

Mechanical data

Material	EPDM/X; FKM; PA; PBT; PC; stainless steel (1.4301 / 304)
Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; FKM
Min. pressure cycles	100 million
Process connection	threaded connection 7/16" - 20 UNF Internal thread

Displays / operating elements

Display	Switching status	2 x LED, red
	Function display	7-segment LED display
	Measured values	7-segment LED display

Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

