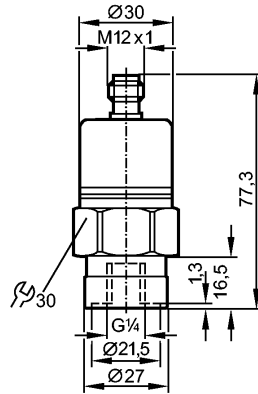


**PA9060**

PA-600-SBR14-B-DVG/US/V

Pressure sensors



**Product characteristics**

Electronic pressure sensor

Quick disconnect

e1 compliant

Process connection: G 1/4 I

Analog output

Measuring range: 0...600 bar

**Application**

Application	Type of pressure: relative pressure Liquids and gases Use in gases at pressures > 25 bar only after contacting the manufacturer ifm
Pressure rating [bar]	800
Bursting pressure min. [bar]	1200
Medium temperature [°C]	-25...90 ****)

**Electrical data**

Electrical design	DC
Operating voltage [V]	16...32 DC
Current consumption [mA]	< 18
Insulation resistance [MΩ]	> 100 (500 V DC)
Protection class	III
Reverse polarity protection	yes

**Outputs**

Output	Analog output
Output function	0...10 V
Overload protection	yes
Min. load [Ω]	2000

**Measuring / setting range**

Measuring range [bar]	0...600
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**Accuracy / deviations**

Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< ± 0.25 (BFSL) / < ± 0.5 (LS)
Hysteresis	± 1
Repeatability **)	< 0.1

**PA9060**

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**Pressure sensors**

Long-term stability ***)	< ± 0.05
Temperature coefficients (TEMPCO) in the temperature range 0...80° C (in % of the span per 10 K)	
Greatest TEMPCO of the zero point	0.1
Greatest TEMPCO of the span	0.2

**Reaction times**

Step response time analogue output [ms]	3
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**Environment**

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 68 / IP 69K

**Tests / approvals**

EMC	EN 61000-4-2 ESD:	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated:	30 V/m
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-6 HF conducted:	10 V
	radiation of interference CISPR25	according to the automotive directive 2004/104/EC
	noise immunity	according to the automotive directive 2004/104/EC
	ISO 11452-2 HF radiated:	100 V/m
	ISO 7637-2 pulse:	severity level 4
Railway applications	DIN EN 50155 / IEC 60571	class T3, C1, S1
Shock resistance	DIN EN 60068-2-27 DIN EN 61373:	50 g (11 ms) Category 3
Vibration resistance	DIN EN 60068-2-6 DIN EN 61373:	20 g (10...2000 Hz) Category 2
MTTF [Years]		478

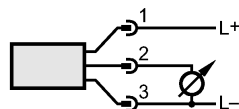
**Mechanical data**

Process connection	G ¼ I
Materials (wetted parts)	stainless steel 316L / 1.4404; ceramics; FPM (Viton)
Housing materials	stainless steel 316L / 1.4404; FPM (Viton); PA; EPDM/X (Santoprene)
Min. pressure cycles	100 million
Weight [kg]	0.235

**Electrical connection**

Connection	M12 connector; gold-plated contacts
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**Wiring**



**Remarks**

Remarks	<p>*) BFSL = Best Fit Straight Line / LS = Limit Value Setting                  **) with temperature fluctuations &lt; 10 K                  ***) in % of value of measuring range / 6 months                  ****) -40...90 °C upon request</p>
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**PA9060**

PA-600-SBR14-B-DVG/US/V

**Pressure sensors**

Pack quantity [piece] 1