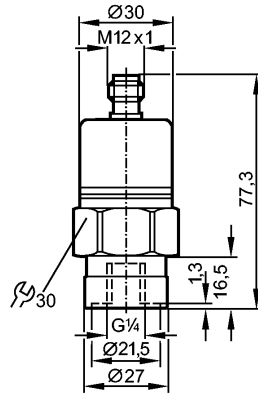


PA3060

PA-600-SBR14-A-ZVG/US/ IV

Pressure sensors



Product characteristics

Electronic pressure sensor

Quick disconnect

e1 compliant

Process connection: G ¼ 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]

9.6...32 DC

Insulation resistance [MΩ]

> 100 (500 V DC)

Protection class

III

Reverse polarity protection

yes

Outputs

Output

Analog output

Output function

4...20 mA

Overload protection

yes

Max. load [Ω]

($U_b - 9.6 V$) x 50; 720 at $U_b = 24 V$

Measuring / setting range

Measuring range [bar]

0...600

Accuracy / deviations

Accuracy / deviations
(in % of the span)

Characteristics deviation *)

< ± 0.25 (BFSL) / < ± 0.5 (LS)

Hysteresis

± 1

Repeatability **)

< 0.1

Long-term stability ***)

< ± 0.05

PA3060

PA-600-SBR14-A-ZVG/US/ IV

Pressure sensors

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 50 g (11 ms) DIN EN 61373: Category 3
Vibration resistance	DIN EN 60068-2-6 20 g (10...2000 Hz) DIN EN 61373: Category 2
MTTF [Years]	507

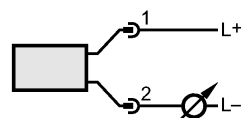
Mechanical data

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]	0.234

Electrical connection

Connection	M12 connector; gold-plated contacts
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Wiring



Remarks

Remarks	*) BFSL = Best Fit Straight Line / LS = Limit Value Setting **) with temperature fluctuations < 10 K ***) in % of value of measuring range / 6 months ****) -40...90 °C upon request
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Pack quantity [piece]	1
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PA3060

PA-600-SBR14-A-ZVG/US/ /V

Pressure sensors