

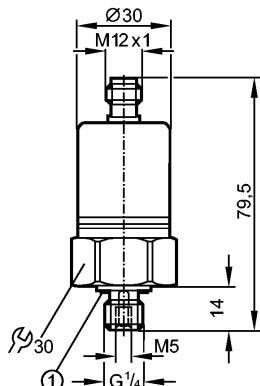


PA3526

PA-2.5-RBG14-A-ZVG/US/ /V



Pressure sensors



1: sealing FPM / DIN 3869-14

CE

Product characteristics

Electronic pressure sensor

Quick disconnect

e1 compliant

Process connection: G 1/4 A / M5 I

Analog output

Measuring range: 0...2.5 bar

Application

Application

Type of pressure: relative pressure
Liquids and gases

Pressure rating [bar]

20

Bursting pressure min. [bar]

50

Medium temperature [°C]

-25...90 ****)

Electrical data

Electrical design

DC

Operating voltage [V]

9.6..32 DC¹⁾

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]

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

Measuring / setting range

Measuring range [bar]

0...2.5

Accuracy / deviations

Accuracy / deviations
(in % of the span)

< ± 0.25 (BFSL) / < ± 0.5 (LS)

Characteristics deviation *)

< 0.1

Repeatability **)

< ± 0.05

Long-term stability ***)

Temperature coefficients (TEMPCO) in the temperature range 0...80° C (in % of the span per 10 K)



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Pressure sensors

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 65

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: radiation of interference CISPR25 noise immunity ISO 11452-2 HF radiated: ISO 7637-2 pulse:	4 kV CD / 8 kV AD 30 V/m 2 kV 10 V according to the automotive directive 2004/104/EC according to the automotive directive 2004/104/EC 100 V/m 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]	506

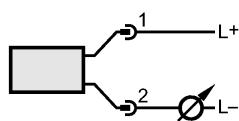
Mechanical data

Process connection	G ¼ A / M5 I	
Materials (wetted parts)	stainless steel (303S22); ceramics; sealing: FPM (Viton); according to DIN 3869-14	
Housing materials	stainless steel 316L / 1.4404; FPM (Viton); PA; EPDM/X (Santoprene)	
Min. pressure cycles	100 million	
Weight	[kg]	0.219

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	
Pack quantity	[piece]	1