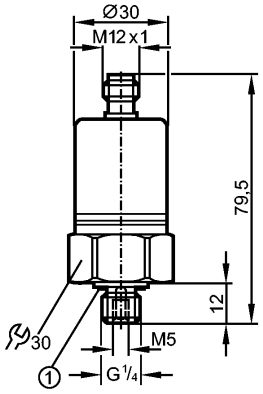
efectorsoo

PA3524

PA-010-RBG14-A-ZVG/US/ /V

Pressure sensors



1: sealing FPM / DIN 3869-14

Product characteristics

Electronic pressure sensor

Quick disconnect

e1 compliant

Process connection: G ¼ A / M5 I

Analog output

Measuring range: 0...10 bar

Application

Application		Type of pressure: relative pressure Liquids and gases
Pressure rating	[bar]	75
Bursting pressure min.	[bar]	150
Medium temperature	[°C]	-25...90 ****)

Electrical data

Electrical design		DC
Operating voltage	[V]	9.6...32 DC [1])
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...10

Accuracy / deviations

Accuracy / deviations
(in % of the span)

Characteristics deviation *)	< ± 0.25 (BFSL) / < ± 0.5 (LS)
Repeatability **)	< 0.1
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

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	

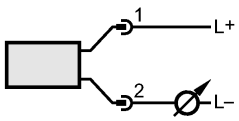
Mechanical data

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]	0.218

Electrical connection

Connection		M12 connector; gold-plated contacts

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