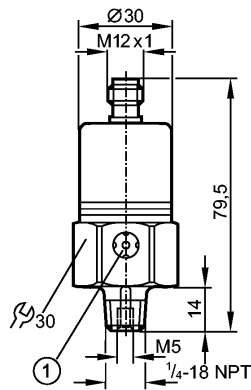


**PX3237**

PA-002PRBN14-A-ZVG/US/ IV

Pressure sensors



1: ventilation



**Product characteristics**

Electronic pressure sensor

Quick disconnect

e1 compliant

Process connection: 1/4" NPT A / M5 I

Analog output

Measuring range: 0...20 psi

**Application**

Application	Type of pressure: relative pressure Liquids and gases
Pressure rating [psi]	145
Bursting pressure min. [psi]	450
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]	(Ub - 9.6 V) x 50; 720 at Ub = 24 V

**Measuring / setting range**

Measuring range [psi]	0...20
-----------------------	--------

**Accuracy / deviations**

Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< ± 0.25 (BFSL) / < ± 0.5 (LS)
Repeatability **)	< 0.15
Long-term stability ***)	< ± 0.1

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

**PX3237**

PA-002PRBN14-A-ZVG/US/ IV

**Pressure sensors**

Greatest TEMPCO of the zero point	0.2
Greatest TEMPCO of the span	0.4

**Reaction times**

Step response time analogue output [ms]	3
---	---

**Environment**

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 67

**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 according to the automotive directive 2004/104/EC / CISPR25  noise immunity according to the automotive directive 2004/104/EC / ISO 11452-2 HF radiated 100 V/m pulse resistance according to ISO7637-2 / severity level 3
Shock resistance	DIN IEC 68-2-27: 50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6: 20 g (10...2000 Hz)

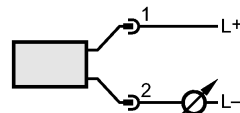
**Mechanical data**

Process connection	¼" NPT A / M5 I
Materials (wetted parts)	stainless steel (303S22); ceramics; FPM (Viton)
Housing materials	stainless steel 316L / 1.4404; FPM (Viton); PA; EPDM/X (Santoprene)
Min. pressure cycles	100 million
Weight [kg]	0.215

**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
---------	---

Pack quantity [piece]	1
-----------------------	---