

1: ventilation



Product characteristics

Electronic pressure sensor

Connector

e1 compliant

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

Analogue output

Measuring range: 0...20 psi

Application

Application

Type of pressure: relative pressure
Liquids and gases

Pressure rating	[psi]
Bursting pressure min.	[psi]
Medium temperature	[°C]

145

450

-25...90

Electrical data

Electrical design

DC

Operating voltage	[V]
Insulation resistance	[MΩ]

9.6...32 DC

> 100 (500 V DC)

Protection class

III

Reverse polarity protection

yes

Outputs

Output

Analogue 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)

Greatest TEMPCO of the zero point

0.2

Greatest TEMPCO of the span

0.4

Reaction times

Step response time analogue output [ms]

3

PX3237 - Electronic pressure sensor - eclass: 27201302 / 27-20-13-02

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 according to the automotive directive 2004/104/EC / ISO
noise immunity	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)

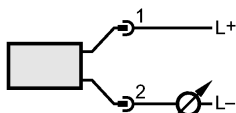
Mechanical data

Process connection	1/4" 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
---------------	-----------