

1: sealing NBR / DIN 3869-14
tightening torque 25 Nm



Product characteristics

Electronic pressure sensor

for mobile applications

e1 compliant

Process connection: G 1/4 A

Analogue output

Measuring range: 0...400 bar

Application

Application

Type of pressure: relative pressure
Liquids and gases

| | |
|------------------------|-------|
| Pressure rating | [bar] |
| Bursting pressure min. | [bar] |
| Medium temperature | [°C] |

600

1600

-40...90

Electrical data

Electrical design

DC

Operating voltage

8.5...36 DC

Insulation resistance

> 100 (80 V DC)

Protection class

III

Reverse polarity protection

yes

Outputs

Output

Analogue output

Output function

4...20 mA analogue

Analogue output

4...20 mA

Max. load

($U_b - 8.5 \text{ V}$) x 50; 775 at $U_b = 24 \text{ V}$

Measuring / setting range

Measuring range

0...400

Accuracy / deviations

Accuracy / deviations

(in % of the span)

Characteristics deviation *)

< ± 1.0

Linearity

< ± 0.25 (BFSL) / < ± 0.5 (LS)

Hysteresis

< ± 0.2

Repeatability **)

< ± 0.1

Long-term stability ***)

< ± 0.1

Temperature coefficients (TEMPCO) in the temperature range -25...90° C (in % of the span per 10 K)

Greatest TEMPCO of the zero point

< ± 0.1

Greatest TEMPCO of the span

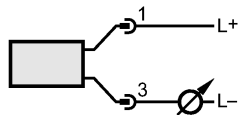
< ± 0.1

Reaction times

PC3550 - Electronic pressure sensor - eclass: 27201302 / 27-20-13-02

| | |
|---|--|
| Step response time analogue output [ms] | 8 |
| Environment | |
| Ambient temperature [°C] | -40...90 |
| Storage temperature [°C] | -40...100 |
| Protection | IP 67 / IP 69K |
| Tests / approvals | |
| EMC | EN 61000-4-2 ESD: 4 kV CD / 8 kV AD according to the automotive directive 95/54/EC 04/104EC / 05/83EC noise immunity ISO 11452-2 100 V/m ISO 11452-4 100 mA / severity level 4 severity level 3 (severity level 4 upon request) ISO 7637-2 radiation of interference according to CISPR 25 EN 61000-6-1 EN 61000-6-4 |
| 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 | G ¼ A |
| Materials (wetted parts) | stainless steel 316L / 1.4404; sealing: NBR |
| Housing materials | stainless steel 316L / 1.4404; TROGAMID |
| Min. pressure cycles | 50 million |
| Weight [kg] | 0.078 |
| Electrical connection | |
| Connection | M12 connector |

Wiring



Remarks

Remarks

*) incl. drift due to tightening torque, zero and span error
 **) with temperature fluctuations < 10 K
 ***) in% of the span / 6 months
 e1 approval on request
 BFSL = Best Fit Straight Line / LS = Limit Value Setting

Pack quantity [piece]

1