



Pressure Transducer Heavy Duty Precision Piezoresistive



measuring
•
monitoring
•
analysing



- Gauge pressure
- Internal diaphragm
- Measuring range:
-1 ... 0 to 0 ... 16 bar
- Temperature (medium):
max. 80 °C
- Accuracy class: 0.1
- Material:
stainless steel
- Fitting: G 1/2 male
- Option:
serial interface



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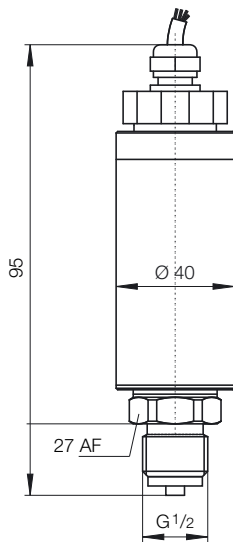
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Model:
SEN-3382 B
SEN-3382 C

Description

KOBOLD Heavy Duty Precision pressure sensors are leaders among the pressure transducers. These pressure sensors have an accuracy class rating of 0.1 % as standard. This renders them particularly suitable for use in test and calibration engineering. Due to the programcontrolled temperature compensation, the temperature-related measuring error in the 0 to 50°C range is practically zero. Long term stability, good corrosion resistance, high degree of protection (IP 67) and mechanical loadbearing capacity also make the Heavy Duty Precision pressure sensors ideal for demanding measurements in rugged industrial environments.

Dimensions



Order Details Sensor (Example: SEN-3382/2 C315)

Measuring range	Order no. Gauge pressure class 0.1 4 - 20 mA
-1 to 0 bar	SEN-3382/2 C315
-0.6 to 0 bar	SEN-3382/2 C305
-0.4 to 0 bar	SEN-3382/2 C436
-0.25 to 0 bar	SEN-3382/2 C426
0 to 0.25 bar	SEN-3382/2 B146
0 to 0.4 bar	SEN-3382/2 B156
0 to 0.6 bar	SEN-3382/2 B015
0 to 1 bar	SEN-3382/2 B025
0 to 1.6 bar	SEN-3382/2 B035
0 to 2.5 bar	SEN-3382/2 B045
0 to 4 bar	SEN-3382/2 B055
0 to 6 bar	SEN-3382/2 B065
0 to 10 bar	SEN-3382/2 B075
0 to 16 bar	SEN-3382/2 B085

Technical data

Technology: internal diaphragm
 Pressure: gauge pressure
 Housing: stainless steel 1.4571
 Fitting: G 1/2 male acc. to DIN 16288
 Wetted parts: stainless steel 1.4571
 Sensor element: piezoresistive
 Max. temperature: storage: - 40 ... +85 °C
 medium: - 20 ... +80 °C
 ambient: - 20 ... +80 °C
 Pressure limitation: 3 x range
 Accuracy class: 0.1
 Repeatability: ≤ ± 0.03 % (f.s.d.)
 Stability per year: ≤ ± 0.1 % (f.s.d.)
 under reference conditions
 Measuring range: < 0.4 bar ≤ ± 0.2 % (f.s.d.)
 Electr. connection: PG-Cable gland with 1.5 m cable
 by RS 232 with 25 connector
 Power supply: 10 ... 30 V_{DC}
 Option: RS 232 Interface
 Output: 4 - 20 mA (2-wire)
 Load (Ω): ≤ (U_B - 10 V) / 0.02 A (for 4 - 20 mA)
 Response time: analogue output ≤ 10 ms
 (within 10 - 90 % of full scale)
 RS 232 ≤ 10 ms
 Adjustability: by RS 232 programmable /
 by analogue output through Serviceput

Temp. comp. range: - 20 ... +80 °C
 Temperature drift: zero point and span
 - 20 ... 0 °C: ≤ 0.1 % / 10 K
 0 ... 50 °C: no drift
 50 ... 80 °C: ≤ 0.1 % / 10 K
 Protection: IP 67

Applications

- Test engineering
- Calibration engineering
- Precision measurements
in Development and
Production