



Pressure Transducer Heavy Duty Compact Piezoresistive



measuring
•
monitoring
•
analysing



- Gauge or absolute pressure
- Internal diaphragm
- Measuring range:
-1...0 to 0...16 bar
- Temperature (medium):
max. 100 °C
- Accuracy class:
0.5 or 1.0
- Material: stainless steel
- Connection: G 1/4 male



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Model:
SEN-3247
SEN-3249
SEN-3272

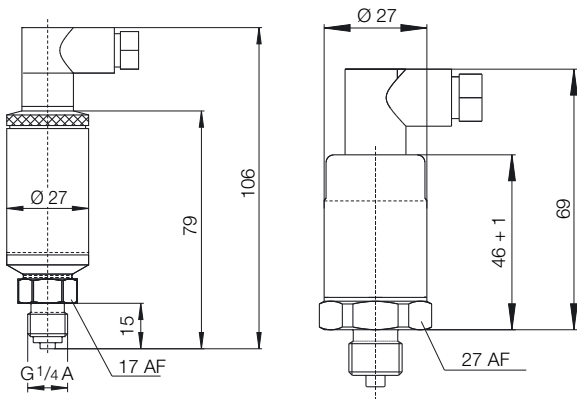


Description

Industrial Heavy Duty Compact pressure sensors are leaders among the pressure transducers. Compact, rugged with longterm stability, they are particularly suitable for applications in which the major requirements are small size, a G 1/4 pressure connection, light weight and the ability to withstand high mechanical loads. As a measuring element, a piezoresistive sensor is used. The material utilized renders these pressure sensors insensitive to chemically aggressive media.

Dimensions

SEN-3247..., SEN-3249... SEN-3272...



Areas of application

- Materials handling and lifting equipment
- Hydraulic systems
- Pneumatic systems
- General mechanical engineering

Technical Data

Technology: internal diaphragm
 Pressure: SEN-3249
 SEN-3272: gauge pressure
 SEN-3247: absolute pressure
 Housing: stainless steel 1.4301
 Mechanical connection: G 1/4 male DIN 16288
 Wetted parts: stainless steel 1.4571 and 1.4542
 Measuring principle: piezoresistive
 Max. temperature: storage: -40...+100 °C
 medium: -30...+100 °C
 ambient: -40...+85 °C
 Pressure limitation: ≤ 16 bar: 3.5 x range
 vacuum-tight
 Accuracy class: SEN-3247, SEN-3249: 0.5
 SEN-3272: 1.0
 Repeatability: $\leq \pm 0.05\%$ (f.s.d.)
 Stability per year: $\leq \pm 0.2\%$ (f.s.d.)
 under reference conditions
 Electrical connection: Right-angle plug, DIN 43 650 C
 Mini-Hirschmann plug
 G4a1MMT (model 3272)
 Power supply: 10...30 V_{DC}
 (14...30 V_{DC} for output 0 - 10 V)
 Output: 4 - 20 mA (2-wire), 0 - 10 V_{DC}
 Load (Ω): $\leq (U_B - 10 \text{ V}) / 0.02 \text{ A}$ (for 4 - 20 mA)
 $> 10 \text{ k}\Omega$ for 0 - 10 V
 Response time: $\leq 1 \text{ ms}$ (within 10 - 90% of full scale)
 Adjustability: zero point and span to $\pm 5\%$
 (not for SEN-3272)
 Temp. comp. range: 0...+80 °C
 Temperature drift: zero point and span $\pm 0.3\% / 10 \text{ K}$
 Protection: IP 65

Order Details Sensor (Example: SEN-3247 B146)

Measuring range	Order no. Absolute pressure class 0.5 4 - 20 mA	Order no. Gauge pressure class 0.5 4 - 20 mA	Order no. Gauge pressure class 0.5 0 - 10 V _{DC}	Order no. Gauge pressure class 1.0 4 - 20 mA	Order no. Gauge pressure class 1.0 0 - 10 V _{DC}
-1 to 0 bar	-	SEN-3249 C315	SEN-3249/1 C315	-	-
-0.6 to 0 bar	-	SEN-3249 C305	SEN-3249/1 C305	-	-
-0.4 to 0 bar	-	SEN-3249 C436	SEN-3249/1 C436	-	-
-0.25 to 0 bar	-	SEN-3249 C426	SEN-3249/1 C426	-	-
0 to 0.25 bar	SEN-3247 B146	SEN-3249 B146	SEN-3249/1 B146	SEN-3272 B146	SEN-3272/1 B146
0 to 0.4 bar	SEN-3247 B156	SEN-3249 B156	SEN-3249/1 B156	SEN-3272 B156	SEN-3272/1 B156
0 to 0.6 bar	SEN-3247 B015	SEN-3249 B015	SEN-3249/1 B015	SEN-3272 B015	SEN-3272/1 B015
0 to 1 bar	SEN-3247 B025	SEN-3249 B025	SEN-3249/1 A095	SEN-3272 B025	SEN-3272/1 A095
0 to 1.6 bar	SEN-3247 B035	SEN-3249 B035	SEN-3249/1 B035	SEN-3272 B035	SEN-3272/1 B035
0 to 2.5 bar	SEN-3247 B045	SEN-3249 B045	SEN-3249/1 B045	SEN-3272 B045	SEN-3272/1 B045
0 to 4 bar	SEN-3247 B055	SEN-3249 B055	SEN-3249/1 B055	SEN-3272 B055	SEN-3272/1 B055
0 to 6 bar	SEN-3247 B065	SEN-3249 B065	SEN-3249/1 B065	SEN-3272 B065	SEN-3272/1 B065
0 to 10 bar	SEN-3247 B075	SEN-3249 B075	SEN-3249/1 B075	SEN-3272 B075	SEN-3272/1 B075
0 to 16 bar	SEN-3247 B085	SEN-3249 B085	SEN-3249/1 B085	SEN-3272 B085	SEN-3272/1 B085
0 to 25 bar	SEN-3247 B095	SEN-3249 B095	SEN-3249/1 B095	SEN-3272 B095	SEN-3272/1 B095