



Pressure Sensor with Ceramic Sensor Element



measuring
•
monitoring
•
analysing

SEN-87

Option:
pluggable
sandwich
display
model AUF



- Gauge pressure
- Internal diaphragm
- Measuring range:
-1...0 to 0...600 bar
- Temperature (medium):
max. 85 °C
- Accuracy class:
0.5 or 1.0
- Material:
stainless steel and ceramic
- Connection: G 1/4 male



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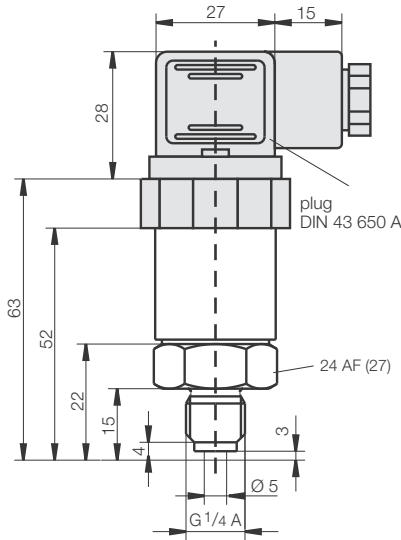
Description

KOBOLD Pressure sensors model SEN-86 are inexpensive pressure sensors with thick film ceramic pressure element. With their accuracy, reliability and compact design, they are perfectly suitable for OEM applications in medium to high quantities.

The materials and technology used make these pressure sensors insensitive to chemically aggressive media and mechanical load.

Particularly hydraulics systems with their high and fast pressure peaks are thus preferred applications.

Dimensions



Applications

- Plant engineering
- Environmental engineering
- Machine building
- Cooling circuit

Technical Details

- Technology: internal diaphragm
- Pressure type: gauge pressure
- Housing: stainless steel 1.4305
- Connection: G 1/4 male stainless steel 1.4301 (NPT, UNF on request)
- Sensor element: ceramic (Al₂O₃)
- Measuring principle: thick film techn. (DMS)
- O-Ring: NBR
- Max. Temperature: storage: -40...+100°C
medium: -20...+85°C
ambient: -40...+85°C
- Pressure limitation: to 60 bar: 2 x full scale
ab 60 bar: 1.5 x full scale
- Accuracy class: SEN-87*0: 0.5
SEN-87*1: 1.0
- Repeatability: SEN-87*0: ≤ ±0.15% of f.s.
SEN-87*1: ≤ ±0.3% of f.s.
- Characteristic deviation: SEN-87*0: ≤ ±0.3% of f.s.
SEN-87*1: ≤ ±0.6% of f.s.
- Stability (annual): ≤ ±0,2% of full scale
in rated conditions
- Electrical connection: plug DIN 43 650 A/plug M12x1
cable connection
- Power supply: 15...32 V_{DC}
- Output signal: 4-20 mA (2-wire),
0-5 V_{DC}, 0-10 V_{DC}
- Load (Ω): ≤(U_B-15V)/0,02 A (für 4-20 mA)
- Response time: ≤1 ms (within 10-90% of full scale)
- Temp. comp. range: -25...+85°C
- Temperature drift: zero point:
SEN-87*0: ≤ ±0.02% f.s./K
SEN-87*1: ≤ ±0.04% f.s./K
span:
SEN-87*0: ≤ ±0.01% f.s./K
SEN-87*1: ≤ ±0.02% f.s./K
- Protection: IP 65 (SEN-870...; SEN-873...)
IP 68 (SEN-875...)

Order Details Sensor (Example: SEN-8700 C315)

Electrical connection	Class	Model	Output	Measuring range
DIN plug; IP 65	0.5	SEN-8700..	without = 4 - 20 mA /1 = 0 - 5 V /2 = 0 - 10 V	C315 = -1 to 0 bar B025 = 0 to 1 bar B035 = 0 to 1,6 bar B045 = 0 to 2,5 bar B055 = 0 to 4 bar B065 = 0 to 6 bar B075 = 0 to 10 bar B085 = 0 to 16 bar A095 = 0 to 25 bar A105 = 0 to 40 bar A115 = 0 to 60 bar A125 = 0 to 100 bar A135 = 0 to 160 bar A145 = 0 to 250 bar A155 = 0 to 400 bar A165 = 0 to 600 bar
M12 plug; IP 65	0.5	SEN-8730..		H315 = 30 to 0 Hg P025 = 0 to 15 psi g P045 = 0 to 30 psi g P055 = 0 to 50 psi g P065 = 0 to 100 psi g P075 = 0 to 150 psi g P085 = 0 to 200 psi g P095 = 0 to 350 psi g P105 = 0 to 600 psi g P115 = 0 to 1000 psi g P125 = 0 to 1450 psi g P135 = 0 to 2300 psi g P145 = 0 to 3600 psi g P155 = 0 to 5800 psi g YYYY = special measuring range
Cable connection; IP 68	0.5	SEN-8750..		
DIN plug; IP 65	1.0	SEN-8701..		
M12 plug; IP 65	1.0	SEN-8731..		
Cable connection; IP 68	1.0	SEN-8751..		