



Pressure sensors

PFT-SCA250SG1SSAAMSSZ



Model Name > [PFT-SCA250SG1SSAAMSSZ](#)
Part No. > [6038802](#)



Product may differ from illustration

At a glance

- Compound pressure measurement ranges from -1 ... 0 bar up to -1 ... +30 bar
- Process temperature up to 125 °C (optional)
- High shock and vibration resistance
- Accuracy 0.5% or 0.25%
- Output signal 4 ... 20 mA, 0 ... 5 V, or 0 ... 10 V
- Zero and span adjustable
- Electrical connection M12x1, L-connector according to DIN 175301-803 A or flying leads

Your benefits

- Reliable and highly accurate measurement technology
- Wide application range
- No mechanical wear, fatigue-proof, maintenance-free as no moving parts
- Simple and cost-saving installation
- Optimal solution for individual requirements due to very versatile configurability
- Maximum installation flexibility due to availability of a large range of customary thread types



Features

Pressure type:	Compound pressure
Measuring range:	0 mbar/0 mbar
Process temperature:	-30 °C ... 100 °C
CE-conformity:	✓
Output signal:	4...20 mA

Performance

Accuracy:	≤ +/- 0.5 % (of span)
Non-linearity:	≤ +/- 0.2 % (of span (Best Fit Straight Line, BFSL) according to IEC 61298-2)
Long-term drift/one-year stability:	≤ +/- 0.2 % of span (at reference conditions)
Temperature coefficient in rated temperature range:	Mean TC of span ≤ 0.2 % of span/10 K, Mean TC of zero: ≤ 0.2 % of span/10 K (< 0.4 % for pressure ranges ≤ 0.25 bar)
Rated temperature range:	0 °C ... 80 °C
Non-repeatability:	≤ +/- 0.1 % of span
Response time (10 % ... 90 %):	≤ 1 ms (≤ 10 ms at medium temperatures below < -30°C for pressure ranges up to 25 bar or with flush-mounted membrane)

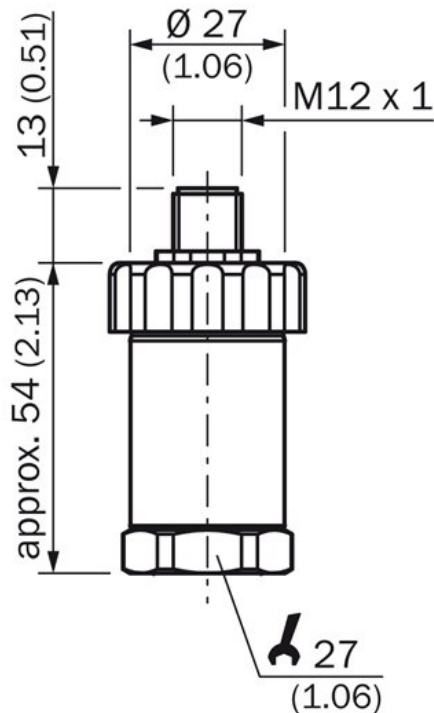
Mechanics/electronics

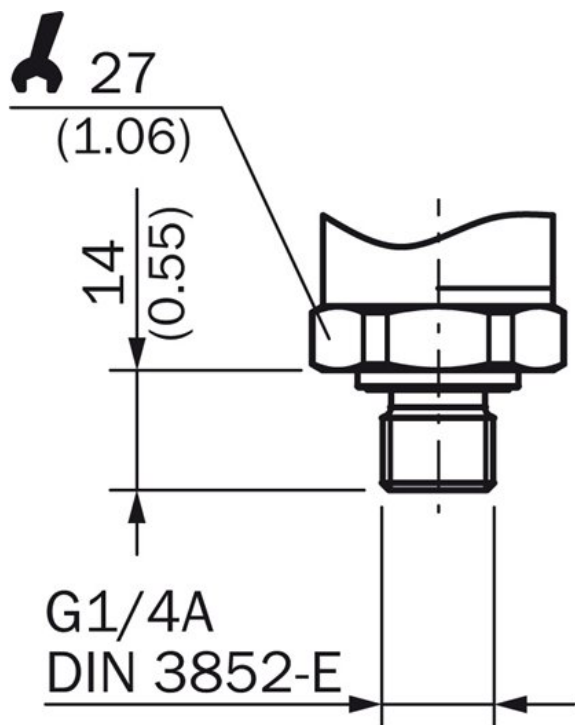
Process connection:	G 1/4 A according to DIN 3852-E
Wetted parts:	Standard: Stainless steel
Seal:	Without seal
Pressure port:	Standard
Housing material:	Stainless steel
Enclosure rating:	IP 67
Connection type:	M12 x 1, 4-pin, IP 67
Supply voltage:	10 V DC ... 30 V DC
Electrical safety:	Short-circuit protection: QA towards M, Protection class: III, Overvoltage protection: 36 V DC, Reverse polarity protection: L+ towards M
Dielectric strength:	500 V DC, NEC Class 02 power supply (low voltage and low current max. 100 VA even under fault conditions)
Protection class III:	✓
Weight sensor:	200 g
CE-conformity:	Pressure equipment directive: 97/23/EC, EMC directive: 2004/108/EEC, EN 61326-2-3

Ambient data

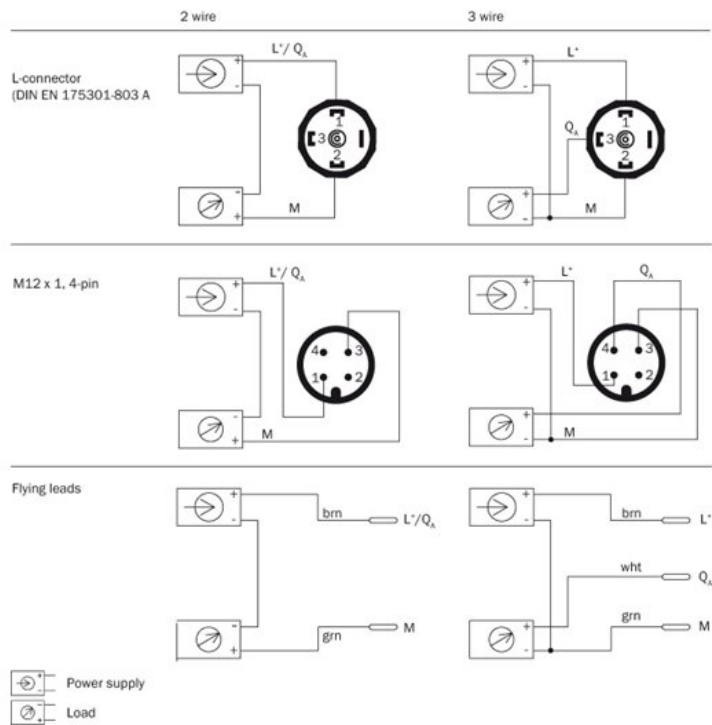
Storage temperature:	-40 °C ... 100 °C
Ambient temperature:	-20 °C ... 80 °C
Shock load:	1000 g according to IEC 60068-2-27 (mechanical shock)
Vibration load:	20 g according to IEC 60068-2-6 (vibration under resonance)

Dimensional drawing housing





Connection type



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