



## Pressure sensors Pressure transmitter

PFT-SRB250SG1SSAALSSZ



**Model Name** > **PFT-SRB250SG1SSAALSSZ**  
**Part No.** > **6043559**



*Product may differ  
from illustration*

#### At a glance

- Gauge pressure measurement ranges from 0 ... 0.1 bar up to 0 ... 600 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:       | Gauge pressure    |
| Measuring range:     | 0 bar ... 250 bar |
| 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) |

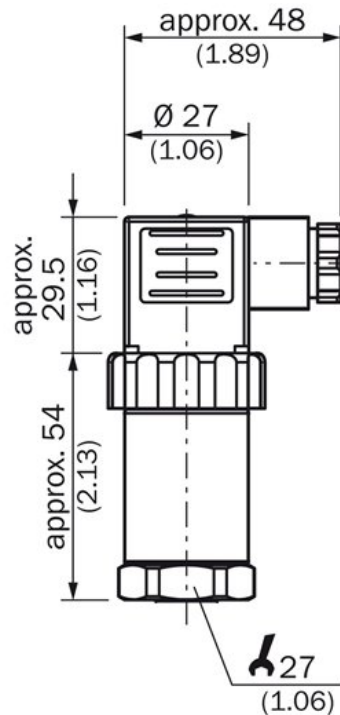
## Mechanics/electronics

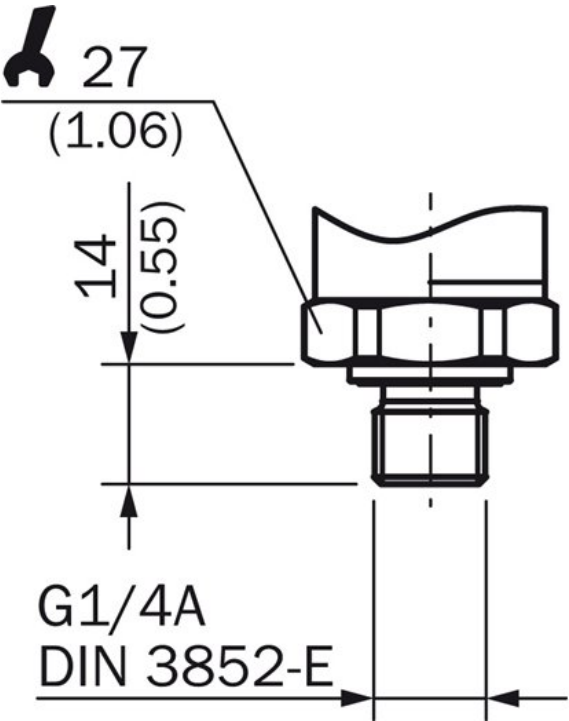
|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 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 65                                                                                                                                     |
| Connection type:      | L-connector (DIN EN 175301-803 A), IP 65                                                                                                  |
| 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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