



Pressure sensors  
Pressure transmitter

PFT-FRB025SF20SSAMSSZ



**Model Name** > [PFT-FRB025SF2OSSAMSSZ](#)  
**Part No.** > [6038813](#)



*Product may differ  
from illustration*

#### At a glance

- Gauge pressure measurement ranges from 0 ... 0.1 bar up to 0 ... 600 bar
- Process connections G1 or G 1/2 with flush-mounted membrane
- Accuracy 0.5% or 0.25%
- Process temperature up to 150 °C (optional)
- High shock and vibration resistance
- 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: The flush-mounted membrane enables pressure measurement in specific media such as sludges, slurries, pulp or highly viscous liquids
- 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



#### Features

|                      |                   |
|----------------------|-------------------|
| Pressure type:       | Gauge pressure    |
| Measuring range:     | 0 bar ... 25 bar  |
| Process temperature: | -30 °C ... 100 °C |
| Rated temperature:   | 0 °C ... 80 °C    |
| CE-conformity:       | ✓                 |
| Output signal:       | 4...20 mA         |

#### Performance

|                |                                                                                                                       |
|----------------|-----------------------------------------------------------------------------------------------------------------------|
| Accuracy:      | ≤ +/- 0.5 % (of span)                                                                                                 |
| Non-linearity: | ± 0.2 % (Best Fit Straight Line (BFSL))                                                                               |
| Response time: | ≤ 1 ms (≤ 10 ms at medium temperatures below < -30°C for pressure ranges up to 25 bar or with flush-mounted membrane) |

#### Mechanics/electronics

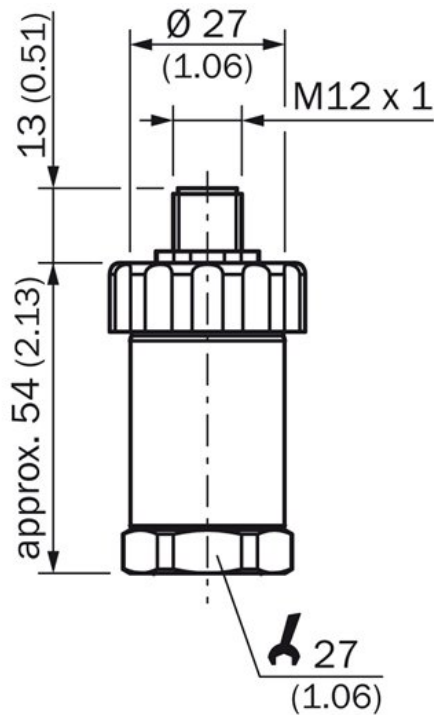
|                     |                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Process connection: | G 1/2 B flush-mounted with O-ring                                                                                                                                            |
| Wetted parts:       | With flush-mounted diaphragm: Stainless steel O-ring: NBR (O-ring made of FPM/FKM for version with flush-mounted membrane with integrated cooling element), FPM/FKM optional |

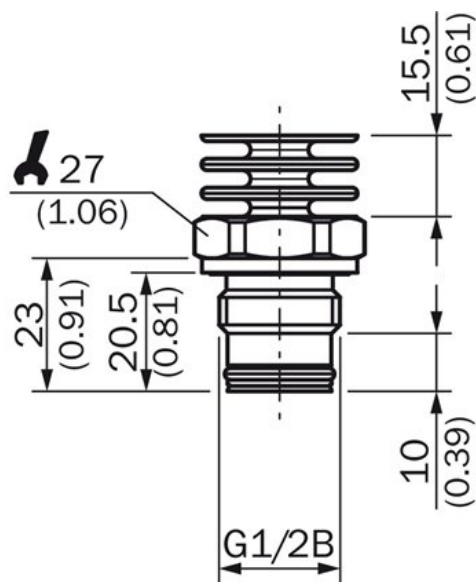
|                       |                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Seal:                 | With flush-mounted membrane: wetted parts: CrNi-steel + NBR O-Ring                                                    |
| Pressure port:        | Front-flush membrane                                                                                                  |
| Housing material:     | Stainless steel                                                                                                       |
| Enclosure rating:     | IP 67                                                                                                                 |
| Connection type:      | M12x1, 4-pin                                                                                                          |
| Supply voltage:       | 10 V DC ... 30 V DC                                                                                                   |
| Electrical safety:    | Short-circuit protection: QA towards M, Overvoltage protection: 36 V DC,<br>Reverse polarity protection: L+ towards M |
| Dielectric strength:  | 500 V DC, NEC Class 02 power supply (low voltage and low current max.<br>100 VA even under fault conditions)          |
| Protection class III: | ✓                                                                                                                     |

#### Ambient data

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| 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) |

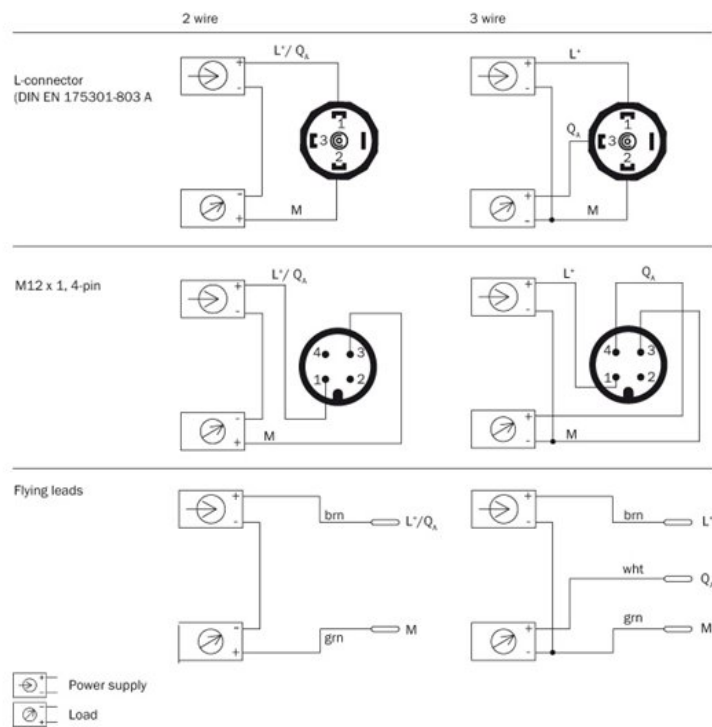
#### Dimensional drawing housing





All dimensions in mm (inch)

Connection type



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