# PF3953

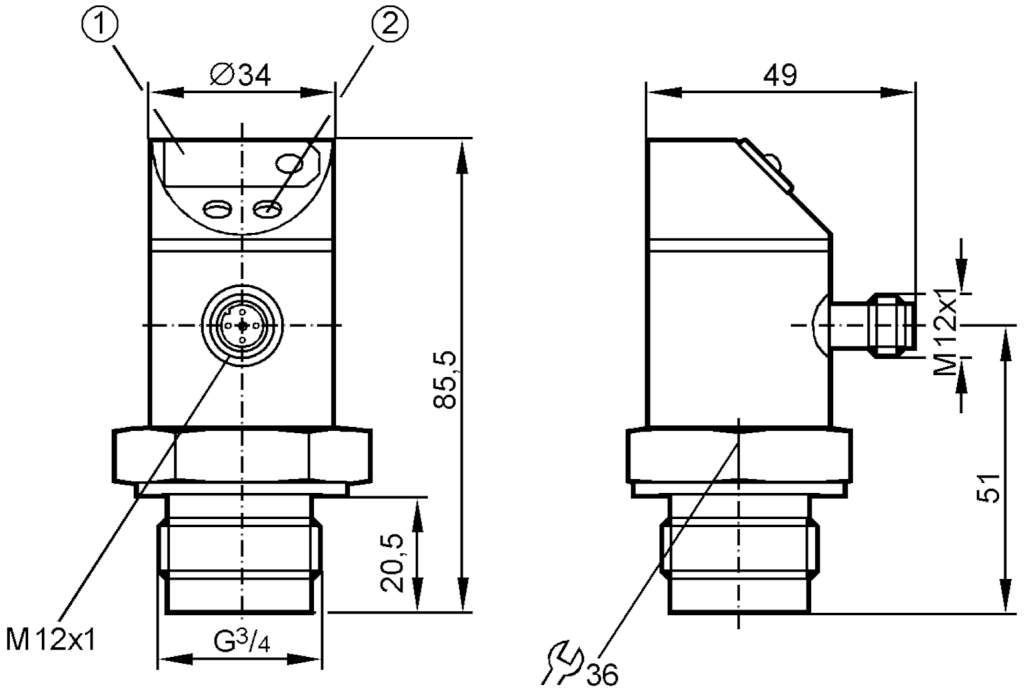
## Flush pressure sensor

PF-025-SEB34-KFPKG/US/ /P

Article no longer available - archive entry

Alternative articles: PF2953

When selecting an alternative article and accessories please note that technical data may differ!




1 7-segment LED display
2 programming button

| | | |
|---|---|---|
| **Product characteristics** | | |
| Number of inputs and outputs | | Number of digital outputs: 1; Number of analogue outputs: 1 |
| Measuring range | [bar] | 0...25 |
| Process connection | | threaded connection G 3/4 external thread |
| **Application** | | |
| Special feature | | Gold-plated contacts |
| Application | | flush mountable for the food and beverage industry |
| Installation | | freely rotatable housing 350° |
| Media | | viscous media and liquids with suspended particles; liquids and gases |
| Medium temperature | [°C] | -25...80 |
| Min. bursting pressure | [bar] | 200 |
| Pressure rating | [bar] | 100 |
| Type of pressure | | relative pressure |
| No dead space | | yes |
| **Electrical data** | | |
| Operating voltage | [V] | 20...30 DC |
| Current consumption | [mA] | < 60 |
| Min. insulation resistance | [MΩ] | 100; (500 V DC) |

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| | | |
|---|---|---|
| Protection class | | III |
| Reverse polarity protection | | yes |
| Power-on delay time | [s] | 0.2 |
| Integrated watchdog | | yes |
| **Inputs / outputs** | | |
| Number of inputs and outputs | | Number of digital outputs: 1; Number of analogue outputs: 1 |
| **Outputs** | | |
| Total number of outputs | | 2 |
| Output signal | | switching signal; analogue signal; (configurable) |
| Electrical design | | PNP |
| Number of digital outputs | | 1 |
| Max. voltage drop switching output DC | [V] | 2 |
| Permanent current rating of switching output DC | [mA] | 250 |
| Number of analogue outputs | | 1 |
| Analogue current output | [mA] | 4...20 |
| Max. load | [Ω] | 500 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| **Measuring/setting range** | | |
| Measuring range | [bar] | 0...25 |
| Set point SP | [bar] | 1.25...25 |
| Reset point rP | [bar] | 0.75...24.75 |
| In steps of | [bar] | 0.25 |
| **Accuracy / deviations** | | |
| Switch point accuracy [% of the final value] | | < ± 1,5 |
| Repeatability [% of the final value] | | < ± 0,25; (with temperature fluctuations < 10 K) |
| Characteristics deviation [% of the final value] | | < ± 1,0 |
| Temperature drift per 10 K | | < ± 0.3 |
| **Response times** | | |

| Switching frequency for a given set response time of one output | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Response time (dAP) | [ms] | 3 | 6 | 10 | 17 | 30 | 60 | 125 | 250 | 500 |
| Switching frequency | [Hz] | 170 | 80 | 50 | 30 | 16 | 8 | 4 | 2 | 1 |

| | | |
|---|---|---|
| Response time | [ms] | at rectangular pressure characteristic; switch point (SPx) = 70 %; reset point (rPx) = 30 % |
| Delay time programmable dS, dr | [s] | 0, 0,2,...10, 11,...50 |
| Max. response time analogue output | [ms] | 3 |

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| | | | |
|---|---|---|---|
| **Software / programming** | | | |
| Adjustment of the switch point | | programming button | |
| Parameter setting options | | hysteresis / window; normally open / normally closed; switch-on/switch-off delay; Damping | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...80 | |
| Storage temperature | [°C] | -40...100 | |
| Protection | | IP 65 | |
| **Tests / approvals** | | | |
| EMC | | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | | EN 61000-4-3 HF radiated | 10 V/m |
| | | EN 61000-4-4 Burst | 2 kV |
| | | EN 61000-4-6 HF conducted | 10 V |
| Shock resistance | | DIN IEC 68-2-27 | 50 g (11 ms) |
| Vibration resistance | | DIN IEC 68-2-6 | 20 g (10...2000 Hz) |
| **Mechanical data** | | | |
| Materials | | stainless steel (1.4404 / 316L); PBT; PC; PA; EPDM/X; FKM | |
| Materials (wetted parts) | | FKM; ceramics; PTFE; stainless steel (1.4404 / 316L) | |
| Min. pressure cycles | | 100 million | |
| Process connection | | threaded connection G 3/4 external thread | |
| **Displays / operating elements** | | | |
| Display | | switching status | LED, red |
| | | function display | 7-segment LED display |
| | | measured values | 7-segment LED display |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

**Electrical connection**

Connector: 1 x M12; coding: A; Contacts: gold-plated



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## Connection

