# Pressure Sensor

## FX6P203

Part Number

weFlux² InoxSens



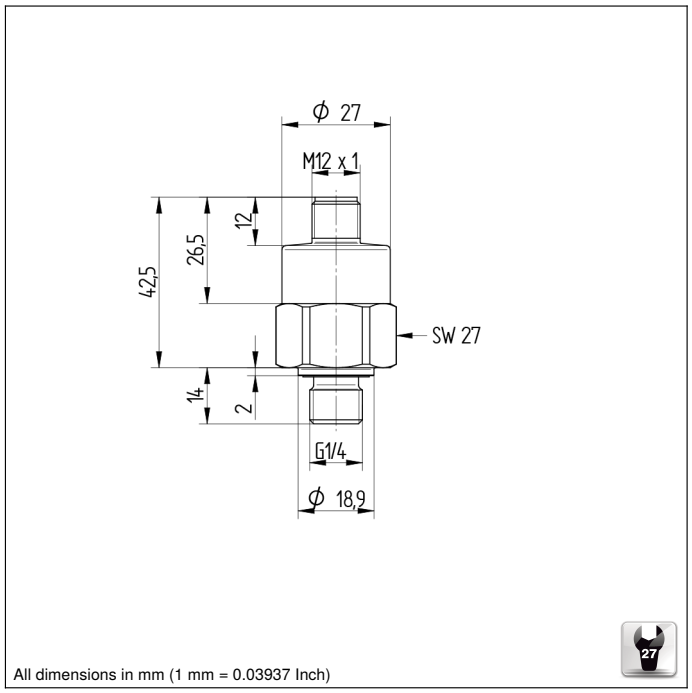
- **Analog output: 4 ... 20 mA**
- **Compact, laser-welded V4A stainless steel housing**
- **Outstanding measuring accuracy: ±0.5%**
- **Very short response time: < 1 ms**

### Technical Data

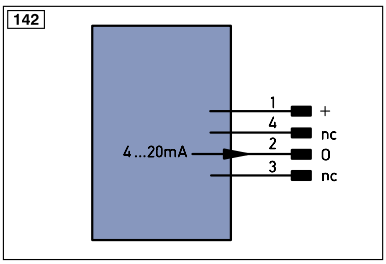
| | |
|---|---|
| **Sensor-specific data** | |
| Measuring Range | -1...25 bar |
| Measurement Type | relative |
| Maximum overload pressure | 50 bar |
| Bursting pressure | 75 bar |
| Medium | Liquids, gases |
| Pressure Response Time (t90) | < 1 ms |
| Measuring error (total) | < 1 % |
| Temperature Coefficient Zero-Point | <± 0,15% /10K |
| Temperature Coefficient Range | <± 0,2% /10K |
| **Environmental conditions** | |
| Temperature of medium | -25...125 °C** |
| Ambient temperature | -25...80 °C |
| Atmospheric humidity | 100 % r.H. |
| Storage temperature | -25...80 °C |
| EMC | DIN EN 61326-2-3 |
| Shock resistance per DIN IEC 68-2-27 | 50 g / 11 ms |
| Vibration resistance per DIN IEC 60068-2-6 | 10 g (10...2000 Hz) |
| **Electrical Data** | |
| Supply Voltage | 9...28 V DC |
| Current Consumption (Ub = 24 V) | < 21 mA |
| Analog Outputs | 1 |
| Analog Output | 4...20 mA Press |
| Current Output Load Resistance | < 500 Ohm |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Protection Class | III |
| **Mechanical Data** | |
| Sensor element | Stainless steel diaphragm |
| Housing Material | 1.4404 |
| Material in contact with media | 1.4404; 1.4548; FKM |
| Degree of Protection | IP68/IP69K * |
| Connection | M12 × 1; 4-pin |
| Process Connection | G 1/4" |
| {Dichtungsmaterial} | FKM |
| **Safety-relevant Data** | |
| MTTFd (EN ISO 13849-1) | 3283,16 a |
| Analog Output | ● |
| Connection Diagram No. | 142 |
| Suitable Connection Equipment No. | 2 |
| Suitable Mounting Technology No. | 919 |

* Not UL certified
** Sensors suitable up to 125 °C media temperature. During installation, please ensure that the sensor housing is adequately cooled by the surroundings.






All dimensions in mm (1 mm = 0.03937 Inch)




Legend

| | | |
|---|---|---|
| + | Supply Voltage + | |
| – | Supply Voltage 0 V | |
| ~ | Supply Voltage (AC Voltage) | |
| A | Switching Output | (NO) |
| Ā | Switching Output | (NC) |
| V | Contamination/Error Output | (NO) |
| V̄ | Contamination/Error Output | (NC) |
| E | Input (analog or digital) | |
| T | Teach Input | |
| Z | Time Delay (activation) | |
| S | Shielding | |
| RxD | Interface Receive Path | |
| TxD | Interface Send Path | |
| RDY | Ready | |
| GND | Ground | |
| CL | Clock | |
| E/A | Output/Input programmable | |
| | IO-Link | |
| PoE | Power over Ethernet | |
| IN | Safety Input | |
| OSSD | Safety Output | |
| Signal | Signal Output | |
| BI_D+/- | Ethernet Gigabit bidirect. data line (A-D) | |
| EN0 RS422 | Encoder 0-pulse 0-0̄ (TTL) | |

| | |
|---|---|
| PT | Platinum measuring resistor |
| nc | not connected |
| U | Test Input |
| Ū | Test Input inverted |
| W | Trigger Input |
| W– | Ground for the Trigger Input |
| O | Analog Output |
| O– | Ground for the Analog Output |
| BZ | Block Discharge |
| AMV | Valve Output |
| a | Valve Control Output + |
| b | Valve Control Output 0 V |
| SY | Synchronization |
| SY– | Ground for the Synchronization |
| E+ | Receiver-Line |
| S+ | Emitter-Line |
| ⏚ | Grounding |
| SnR | Switching Distance Reduction |
| Rx+/– | Ethernet Receive Path |
| Tx+/– | Ethernet Send Path |
| Bus | Interfaces-Bus A(+)/B(–) |
| La | Emitted Light disengageable |
| Mag | Magnet activation |
| RES | Input confirmation |
| EDM | Contactor Monitoring |

| | |
|---|---|
| ENA RS422 | Encoder A/Ā (TTL) |
| ENB RS422 | Encoder B/B̄ (TTL) |
| ENA | Encoder A |
| ENB | Encoder B |
| AMIN | Digital output MIN |
| AMAX | Digital output MAX |
| AOK | Digital output OK |
| SY In | Synchronization In |
| SY OUT | Synchronization OUT |
| OLT | Brightness output |
| M | Maintenance |
| rsv | reserved |

Wire Colors according to IEC 60757

| | |
|---|---|
| BK | Black |
| BN | Brown |
| RD | Red |
| OG | Orange |
| YE | Yellow |
| GN | Green |
| BU | Blue |
| VT | Violet |
| GY | Grey |
| WH | White |
| PK | Pink |
| GNYE | Green/Yellow |

Specifications are subject to change without notice