

Pressure Sensor

FFXP050

Part Number

InoxSens UniBar

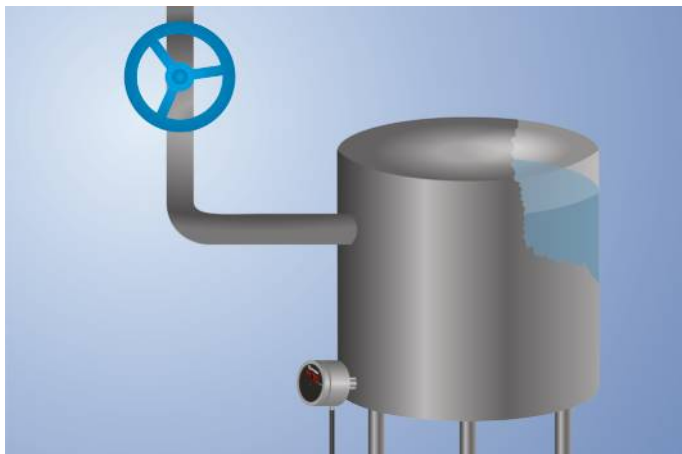


- FDA compliant
- Hygienic design makes it easy to clean
- Piggable with flush mounting
- Robust stainless steel housing with IP69K
- Space-saving process connection thanks to small pressure membrane

UniBar pressure sensors measure the relative pressure in closed systems of any medium in the range -1...600 bar.

UniBar pressure sensors are very easy to use thanks to the removable cover on the integrated display. The highly visible switching status display enables the rapid localization of affected sensors for maintenance processes.

Thanks to the metallic sealing edge on the process connection, no further seals are required.



Technical Data

Sensor-specific data

| | |
|---------------------------|----------------|
| Measuring Range | 0...10 bar |
| Maximum overload pressure | 20 bar |
| Bursting pressure | 40 bar |
| Adjustable Range | 4...100 % |
| Medium | Liquids, gases |
| Switching Hysteresis | 2 % |
| Measuring error | < ± 0,5 % |
| Temperature Drift | 0,025 %/K |

Environmental conditions

| | |
|--|---------------------|
| Temperature of medium | -25...60 °C |
| Ambient temperature | -25...80 °C |
| EMC | DIN EN 61326-2-3 |
| Shock resistance per DIN IEC 68-2-27 | 30 g / 11 ms |
| Vibration resistance per DIN IEC 60068-2-6 | 20 g (10...2000 Hz) |

Electrical Data

| | |
|---|--------------|
| Supply Voltage | 16...32 V DC |
| Current Consumption (U _b = 24 V) | < 60 mA |
| Switching Outputs | 2 |
| Response Time | 1,2 s |
| Switching Output/Switching Current | < 250 mA |
| Switching Output Voltage Drop | < 2 V |
| Resolution | 10 bit |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Protection Class | III |

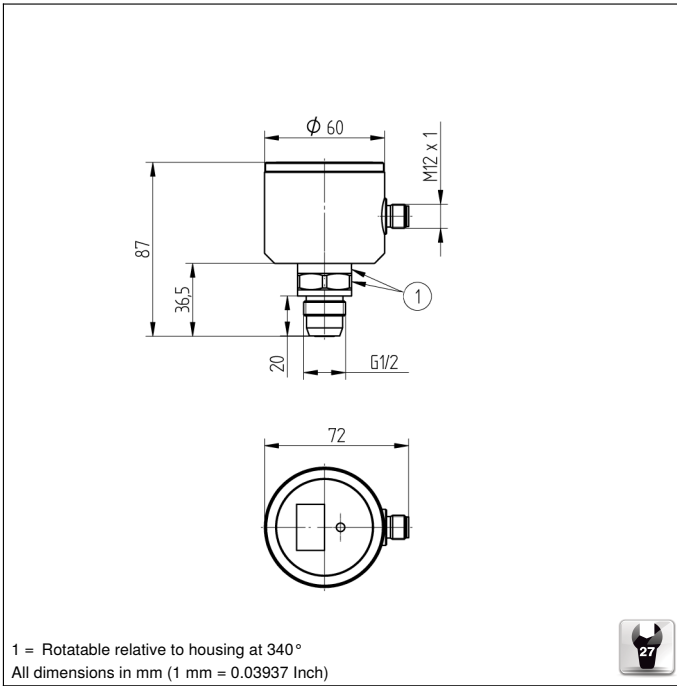
Mechanical Data

| | |
|--------------------------------|--------------------|
| Setting Method | Menu |
| Housing Material | 1.4404; PC; EPDM |
| Material Control Panel | Polyester |
| Material in contact with media | 1.4435; 1.4404 |
| Degree of Protection | IP65/IP69K * |
| Connection | M12 × 1; 4-pin |
| Process Connection | G 1/2" CIP-capable |

PNP NO/NC switchable

| | |
|------------------------------------|-----------|
| Connection Diagram No. | 536 |
| Control Panel No. | A13 |
| Suitable Connection Technology No. | 21 |
| Suitable Mounting Technology No. | 905 906 |

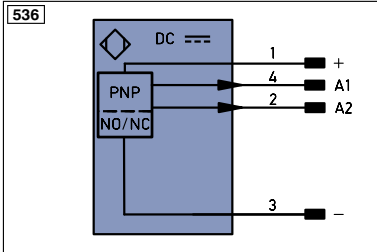
* Tested by wenglor



Ctrl. Panel



- 01 = Switching Status Indicator
- 0A = Detachable lid
- 20 = Enter Button
- 22 = UP Button
- 60 = Display
- 99 = Right button



Legend

| | | | | | |
|----------|--|----------|------------------------------|--------|---------------------|
| + | Supply Voltage + | PT | Platinum measuring resistor | ENa | Encoder A |
| - | Supply Voltage 0 V | nc | not connected | ENb | Encoder B |
| ~ | Supply Voltage (AC Voltage) | U | Test Input | AMIN | Digital output MIN |
| A | Switching Output (NO) | U | Test Input inverted | AMAX | Digital output MAX |
| Ā | Switching Output (NC) | W | Trigger Input | AOK | Digital output OK |
| V | Contamination/Error Output (NO) | O | Analog Output | SY In | Synchronization In |
| ṽ | Contamination/Error Output (NC) | O- | Ground for the Analog Output | SY OUT | Synchronization OUT |
| E | Input (analog or digital) | BZ | Block Discharge | Out | Brightness output |
| T | Teach Input | AWV | Valve Output | M | Maintenance |
| Z | Time Delay (activation) | a | Valve Control Output + | | |
| S | Shielding | b | Valve Control Output 0 V | | |
| RxD | Interface Receive Path | SY | Synchronization | | |
| TxD | Interface Send Path | E+ | Receiver-Line | | |
| RDY | Ready | S+ | Emitter-Line | | |
| GND | Ground | ≡ | Grounding | | |
| CL | Clock | SnR | Switching Distance Reduction | | |
| E/A | Output/Input programmable | Rx+/- | Ethernet Receive Path | | |
| IO-Link | IO-Link | Tx+/- | Ethernet Send Path | | |
| PoE | Power over Ethernet | Bus | Interfaces-Bus A(+)/B(-) | | |
| IN | Safety Input | La | Emitted Light disengageable | | |
| OSSD | Safety Output | Mag | Magnet activation | | |
| Signal | Signal Output | RES | Input confirmation | | |
| Bl_D+/- | Ethernet Gigabit bidirect. data line (A-D) | EDM | Contactur Monitoring | | |
| EN0R542Z | Encoder 0-pulse 0-0 (TTL) | ENAR542Z | Encoder A/Ā (TTL) | | |
| | | ENBR542Z | Encoder B/B̄ (TTL) | | |

Wire Colors according to DIN IEC 757

| | |
|------|--------------|
| 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 |

