## Pressure Sensor with IO-Link

## FX1Q001

Part Number



- Compact, laser-welded V4A stainless steel housing
- Individual parameters configuration via IO-Link 1.1
- Pressure and temperature measurement with a single sensor
- Temperature-compensated pressure reading

weFlux<sup>2</sup> pressure sensors are equipped with an innovative measuring cell which includes an integrated temperature element. This makes it possible for the sensors to measure relative pressure as well as the temperature of any desired medium. Depending on application requirements, either two switching outputs or one switching output and one analog output can be selected for the purpose of reading out measured values. Furthermore, weFlux<sup>2</sup> pressure sensors offer new dimensions in individual parameters configurability. Sensor parameters, filter and output functions, as well as the unit of measure of the measured values (bar, PSI or Pascal), can be flexibly adjusted.



## weFlux<sup>2</sup> InoxSens

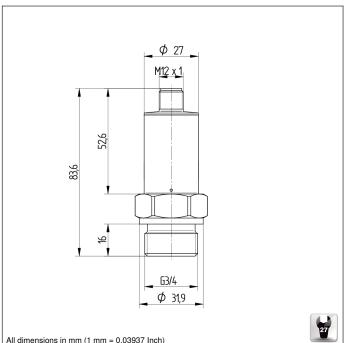
## **Technical Data**

| -11 bar                        |
|--------------------------------|
| relative                       |
| 5 bar                          |
| 7,5 bar                        |
| Liquids, gases                 |
| -40125 °C                      |
| <1s                            |
| < 10 ms                        |
| <±1 °C                         |
| 0,5 %                          |
| < ± 0,1 %                      |
| < ± 0,5 %                      |
| < ± 0,1 %                      |
| < ± 0,1 %                      |
| <± 0,05% /10K                  |
| <± 0,05% /10K                  |
| < <u>1</u> 0,007071010         |
| -25125 °C**                    |
| -2580 °C                       |
| -2580 °C<br>100 % r.H.         |
|                                |
| -2580 °C                       |
| DIN EN 61326-2-3               |
| 50 g / 11 ms                   |
| 10 g (102000 Hz)               |
|                                |
| 1232 V DC                      |
| < 15 mA                        |
| 2                              |
| 100 mA                         |
| < 1,5 V                        |
| 1                              |
| 420 mA /010V<br>Press / Temp   |
| > 11 bit                       |
| < 500 Ohm                      |
| > 1 kOhm                       |
| IO-Link V1.1                   |
| yes                            |
| yes                            |
|                                |
|                                |
| IO-Link                        |
| Ceramic diaphragm              |
| 1.4404                         |
|                                |
| 1.4404; FKM; Ceramic<br>IP65 * |
|                                |
| M12 × 1; 4-pin                 |
| G 3/4"; front                  |
| FKM                            |
|                                |
|                                |
| 1157,11 a                      |
| 1157,11 a                      |
| 1157,11 a                      |
|                                |
| 1157,11 a                      |
|                                |

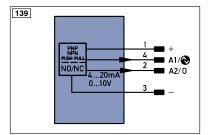
\* Not UL certified

\*\* 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)



| Legen    | d  | PŤ    | Platinum measuring resistor    | ENARS422 | Encoder A/Ā (TTL)           |
|----------|--|-------|--------------------------------|----------|-----------------------------|
| +        | Supply Voltage +                           | nc    | not connected                  |          | Encoder B/B (TTL)           |
| -        | Supply Voltage 0 V                         | U     | Test Input                     | ENA      | Encoder A                   |
| ~        | Supply Voltage (AC Voltage)                | Ū     | Test Input inverted            | ENв      | Encoder B                   |
| А        | Switching Output (NO)                      | W     | Trigger Input                  | Amin     | Digital output MIN          |
| Ā        | Switching Output (NC)                      | W -   | Ground for the Trigger Input   | Амах     | Digital output MAX          |
| V        | Contamination/Error Output (NO)            | 0     | Analog Output                  | Аок      | Digital output OK           |
| V        | Contamination/Error Output (NC)            | 0-    | Ground for the Analog Output   | SY In    | Synchronization In          |
| E        | Input (analog or digital)                  | BZ    | Block Discharge                | SY OUT   | Synchronization OUT         |
| Т        | Teach Input                                | Awv   | Valve Output                   | OLT      | Brightness output           |
| Z        | Time Delay (activation)                    | а     | Valve Control Output +         | м        | Maintenance                 |
| S        | Shielding                                  | b     | Valve Control Output 0 V       | rsv      | reserved                    |
| RxD      | Interface Receive Path                     | SY    | Synchronization                | Wire Co  | lors according to IEC 60757 |
| TxD      | Interface Send Path                        | SY-   | Ground for the Synchronization | BK       | Black                       |
| RDY      | Ready                                      | E+    | Receiver-Line                  | BN       | Brown                       |
| GND      | Ground                                     | S+    | Emitter-Line                   | RD       | Red                         |
| CL       | Clock                                      | ÷     | Grounding                      | OG       | Orange                      |
| E/A      | Output/Input programmable                  | SnR   | Switching Distance Reduction   | YE       | Yellow                      |
| 0        | IO-Link                                    | Rx+/- | Ethernet Receive Path          | GN       | Green                       |
| PoE      | Power over Ethernet                        | Tx+/- | Ethernet Send Path             | BU       | Blue                        |
| IN       | Safety Input                               | Bus   | Interfaces-Bus A(+)/B(-)       |          | Violet                      |
| OSSD     | Safety Output                              | La    | Emitted Light disengageable    | GY       | Grey                        |
| Signal   | Signal Output                              | Mag   | Magnet activation              | WH       | White                       |
| BI_D+/-  | Ethernet Gigabit bidirect. data line (A-D) | RES   | Input confirmation             |          | Pink                        |
| ENO RS42 | Encoder 0-pulse 0-0 (TTL)                  | EDM   | Contactor Monitoring           | GNYE     | Green/Yellow                |

