

# Temperature Sensor

## FXDD103

Part Number

weFlux<sup>2</sup> InoxSens



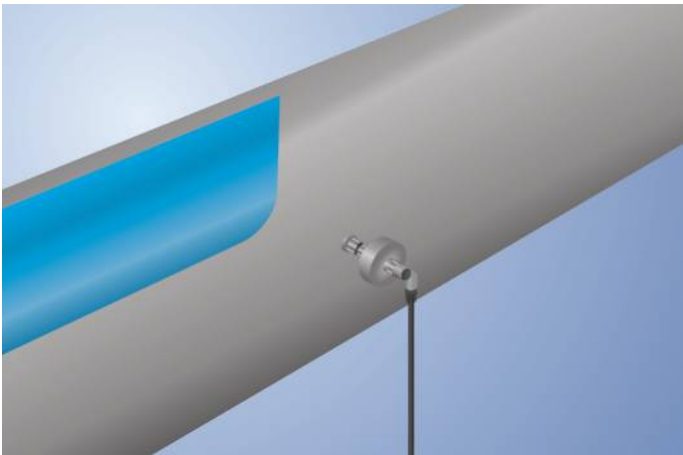
- FDA compliant
- Response time T90: < 2 seconds
- Robust stainless steel housing with IP69K
- Temperature measuring range: -50 ... +200° C

### Technical Data

| Sensor-specific data              |                      |
|-----------------------------------|----------------------|
| Sensor element                    | PT1000, Class B      |
| Temperature Measurement Range     | -50...200 °C         |
| Medium                            | Liquids, gases       |
| Response Time                     | < 2 s                |
| Environmental conditions          |                      |
| Temperature of medium             | -50...200 °C         |
| Ambient temperature               | -25...80 °C          |
| Storage temperature               | -25...80 °C          |
| Pressure Resistance               | 100 bar              |
| Shock Resistance                  | IEC 60751            |
| Vibration resistance              | IEC 60751            |
| Mechanical Data                   |                      |
| Housing Material                  | 1.4404               |
| Material in contact with media    | 1.4404               |
| Degree of Protection              | IP68/IP69K *         |
| Connection                        | M12 × 1; 4-pin       |
| Process Connection                | Cutting/locking ring |
| Process Connection Length (PCL)   | 209 mm               |
| Probe Length (PL)                 | 200 mm               |
| Safety-relevant Data              |                      |
| MTTFd (EN ISO 13849-1)            | 31062,7 a            |
| PT1000                            | ●                    |
| Connection Diagram No.            | 140                  |
| Suitable Connection Equipment No. | 2                    |
| Suitable Mounting Technology No.  | 907   908            |

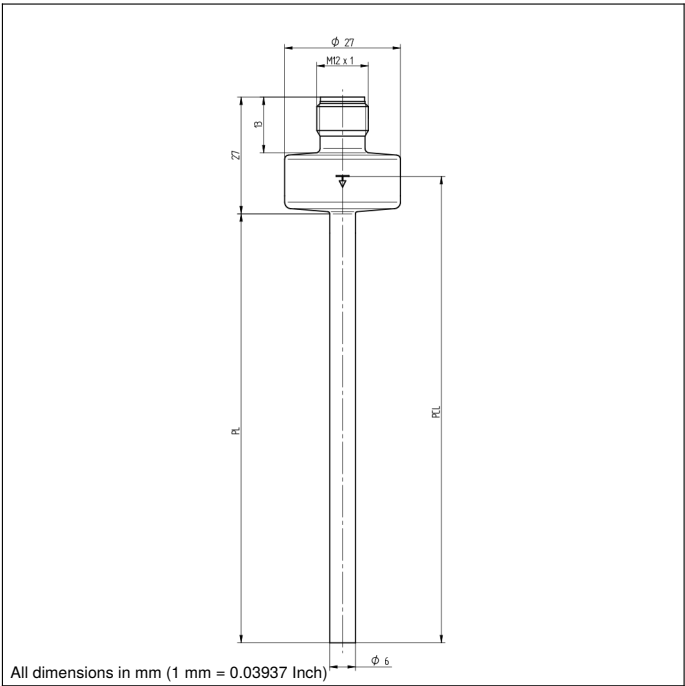
\* Certified by wenglor

weFlux<sup>2</sup> Temperature Sensors ensure precise temperature measurement of liquids and gases in closed piping systems. It's easy to incorporate the standardized PT100/PT1000 resistance value into the controller. The compact housing with a diameter of just 27 mm is made of V4A stainless steel and features an easy-to-clean surface. Thanks to their rugged housing and functional design, the Temperature Sensors are FDA compliant.

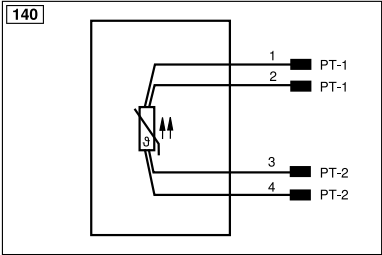


### Complementary Products

ZH6C00x Adapter to G1/4"



All dimensions in mm (1 mm = 0.03937 Inch)



| Legend    |                                            |          |                                |                                        |                     |
|-----------|--------------------------------------------|----------|--------------------------------|----------------------------------------|---------------------|
| +         | Supply Voltage +                           | nc       | Not connected                  | ENBRS422                               | Encoder B/B (TTL)   |
| -         | Supply Voltage 0 V                         | U        | Test Input                     | ENA                                    | Encoder A           |
| ~         | Supply Voltage (AC Voltage)                | Ü        | Test Input inverted            | ENB                                    | Encoder B           |
| A         | Switching Output (NO)                      | W        | Trigger Input                  | AMIN                                   | Digital output MIN  |
| Ä         | Switching Output (NC)                      | W-       | Ground for the Trigger Input   | AMAX                                   | Digital output MAX  |
| V         | Contamination/Error Output (NO)            | O        | Analog Output                  | AOK                                    | Digital output OK   |
| Ȳ         | Contamination/Error Output (NC)            | O-       | Ground for the Analog Output   | SY In                                  | Synchronization In  |
| E         | Input (analog or digital)                  | BZ       | Block Discharge                | SY OUT                                 | Synchronization OUT |
| T         | Teach Input                                | Amv      | Valve Output                   | OLT                                    | Brightness output   |
| Z         | Time Delay (activation)                    | a        | Valve Control Output +         | M                                      | Maintenance         |
| S         | Shielding                                  | b        | Valve Control Output 0 V       | rsv                                    | Reserved            |
| RxD       | Interface Receive Path                     | SY       | Synchronization                | Wire Colors according to DIN 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              |
| IO-Link   | 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(-)       | VT                                     | Violet              |
| OSSD      | Safety Output                              | La       | Emitted Light disengageable    | GY                                     | Grey                |
| Signal    | Signal Output                              | Mag      | Magnet activation              | WH                                     | White               |
| BL_D+/-   | Ethernet Gigabit bidirect. data line (A-D) | RES      | Input confirmation             | PK                                     | Pink                |
| ENo RS422 | Encoder 0-pulse 0/Ü (TTL)                  | EDM      | Contact Monitoring             | GNYE                                   | Green/Yellow        |
| PT        | Platinum measuring resistor                | ENARS422 | Encoder A/A (TTL)              |                                        |                     |