

# Temperature Sensor

## FXDD001

Part Number

weFlux<sup>2</sup> InoxSens



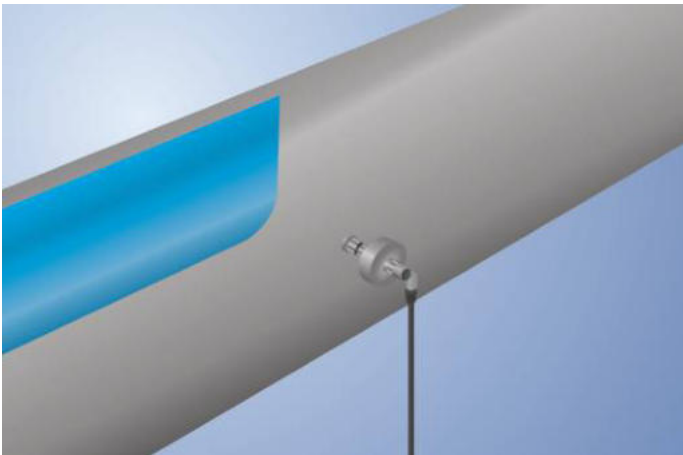
- FDA compliant
- Response time T90: < 2 seconds
- Robust stainless steel housing with IP69K
- Temperature measuring range: -50 ... +200° C

### Technical Data

| Sensor-specific data              |                      |
|-----------------------------------|----------------------|
| Sensor element                    | PT100, 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)   | 59 mm                |
| Probe Length (PL)                 | 50 mm                |
| Safety-relevant Data              |                      |
| MTTFd (EN ISO 13849-1)            | 31062,7 a            |
| PT100                             | ●                    |
| Connection Diagram No.            | 140                  |
| Suitable Connection Equipment No. | 2                    |
| Suitable Mounting Technology No.  | 907 908              |

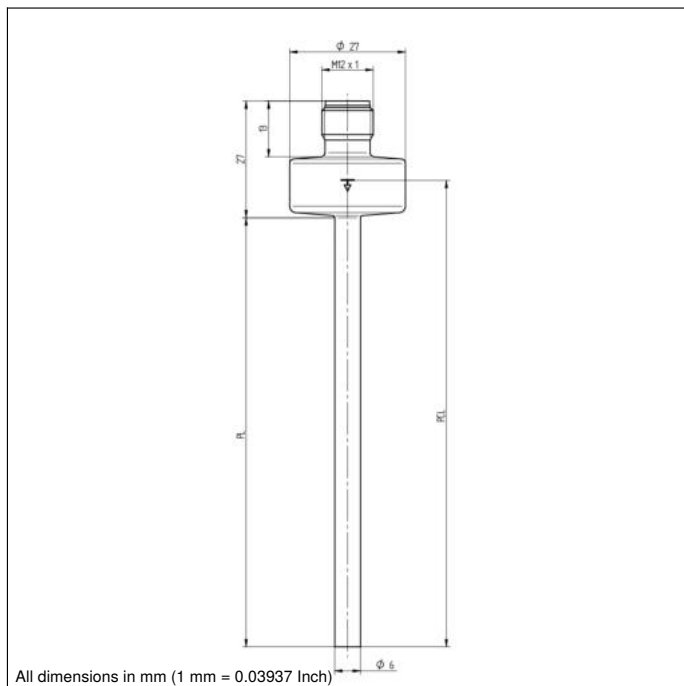
\* Tested by wenglor

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.

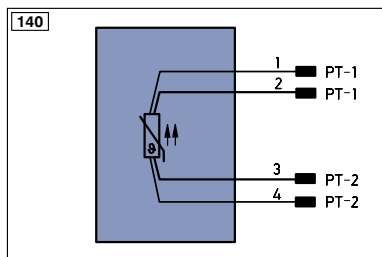


### Complementary Products

ZH6C00x Adapter to G1/4"



All dimensions in mm (1 mm = 0.03937 Inch)



#### Legend

|           |                                            |       |                                |
|-----------|--------------------------------------------|-------|--------------------------------|
| +         | Supply Voltage +                           | PT    | Platinum measuring resistor    |
| -         | Supply Voltage 0 V                         | nc    | not connected                  |
| ~         | Supply Voltage (AC Voltage)                | U     | Test Input                     |
| A         | Switching Output (NO)                      | U     | Test Input inverted            |
| Ā         | Switching Output (NC)                      | W     | Trigger Input                  |
| V         | Contamination/Error Output (NO)            | W-    | Ground for the Trigger Input   |
| Ṽ         | Contamination/Error Output (NC)            | O     | Analog Output                  |
| E         | Input (analog or digital)                  | O-    | Ground for the Analog Output   |
| T         | Teach Input                                | BZ    | Block Discharge                |
| Z         | Time Delay (activation)                    | AWV   | Valve Output                   |
| S         | Shielding                                  | a     | Valve Control Output +         |
| RxD       | Interface Receive Path                     | b     | Valve Control Output 0 V       |
| TxD       | Interface Send Path                        | SY    | Synchronization                |
| RDY       | Ready                                      | SY-   | Ground for the Synchronization |
| GND       | Ground                                     | E+    | Receiver-Line                  |
| CL        | Clock                                      | S+    | Emitter-Line                   |
| E/A       | Output/Input programmable                  | ±     | Grounding                      |
|           | IO-Link                                    | SnR   | Switching Distance Reduction   |
| PoE       | Power over Ethernet                        | Rx+/- | Ethernet Receive Path          |
| IN        | Safety Input                               | Tx+/- | Ethernet Send Path             |
| OSSD      | Safety Output                              | Bus   | Interfaces-Bus A(+)/B(-)       |
| Signal    | Signal Output                              | La    | Emitted Light disengageable    |
| BI-D+/-   | Ethernet Gigabit bidirect. data line (A-D) | Mag   | Magnet activation              |
| EN0.05422 | Encoder 0-pulse 0-0 (TTL)                  | RES   | Input confirmation             |
|           |                                            | EDM   | Contact Monitoring             |

|           |                     |
|-----------|---------------------|
| EN0.05422 | Encoder A/Ā (TTL)   |
| EN0.05422 | 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 |

