

# Temperature Sensor

## FXDD108

Part Number

weFlux<sup>2</sup> InoxSens



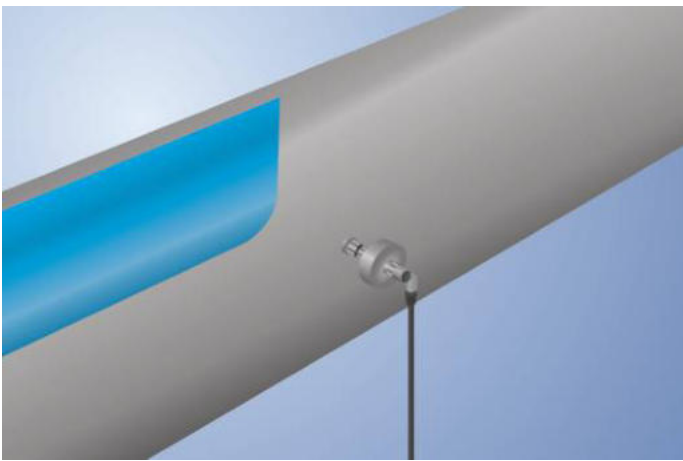
- FDA compliant
- Response time T90: < 2 seconds
- Robust stainless steel housing with IP69K
- Temperature measuring range: -50 ... +200° C

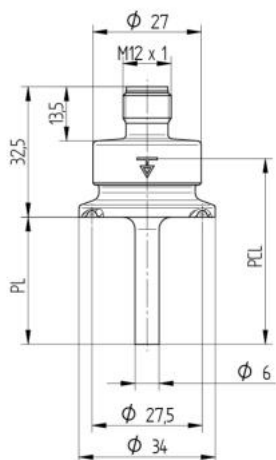
### Technical Data

| 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               | 25 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                | Clamp diameter: 34 mm |
| Process Connection Length (PCL)   | 46 mm                 |
| Probe Length (PL)                 | 32 mm                 |
| PT1000                            | ●                     |
| Connection Diagram No.            | 140                   |
| Suitable Connection Equipment No. | 2                     |

\* Tested by wenglor

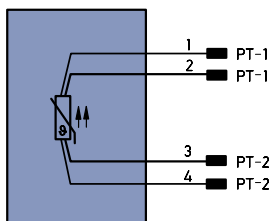
weFlux<sup>2</sup> Temperature Sensors ensure precise temperature measurement of liquids and gases in closed piping systems. It's easy to incorporate the standardized PT100/PT1000 resistance value into the controller. The compact housing with a diameter of just 27 mm is made of V4A stainless steel and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





All dimensions in mm (1 mm = 0.03937 Inch)

140



#### 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)                    | AMV   | 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        |