

# Temperature Sensor

## FXDD101

Part Number

weFlux<sup>2</sup> InoxSens



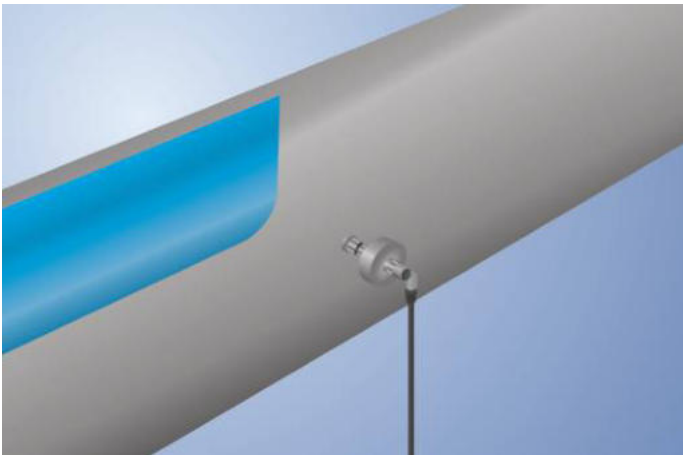
- FDA compliant
- Response time T<sub>90</sub>: < 2 seconds
- Robust stainless steel housing with IP69K
- Temperature measuring range: -50 ... +200° C

### 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)	59 mm
Probe Length (PL)	50 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

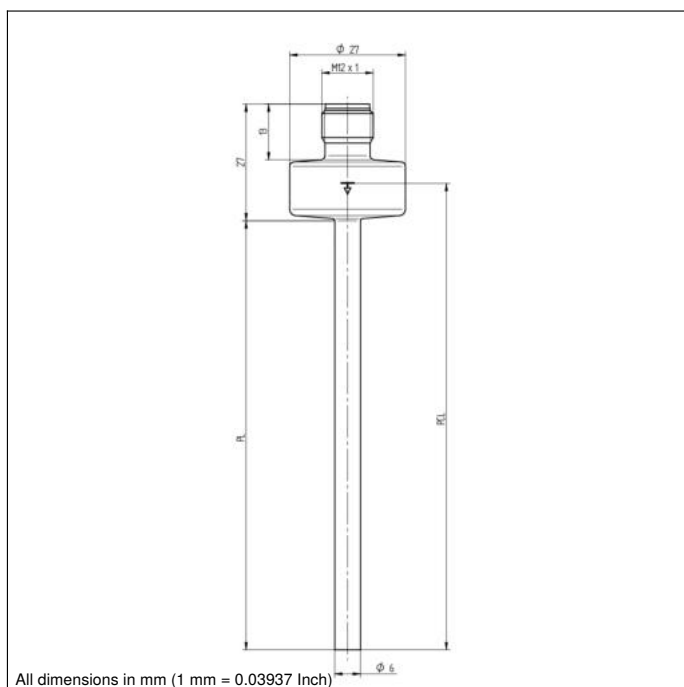
\* Tested by wenglor

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.

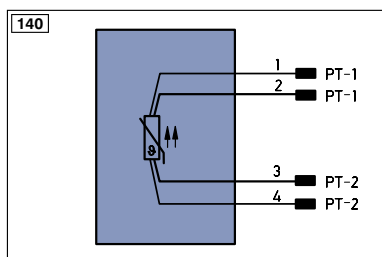


### Complementary Products

ZH6C00x Adapter to G1/4"



All dimensions in mm (1 mm = 0.03937 Inch)



#### Legend

<b>+</b> Supply Voltage +	<b>PT</b> Platinum measuring resistor	<b>ENAR5422</b> Encoder A/Ā (TTL)
<b>-</b> Supply Voltage 0 V	<b>nc</b> not connected	<b>ENBR5422</b> Encoder B/B̄ (TTL)
<b>~</b> Supply Voltage (AC Voltage)	<b>U</b> Test Input	<b>ENa</b> Encoder A
<b>A</b> Switching Output (NO)	<b>Ū</b> Test Input inverted	<b>ENb</b> Encoder B
<b>Ā</b> Switching Output (NC)	<b>W</b> Trigger Input	<b>AMIN</b> Digital output MIN
<b>V</b> Contamination/Error Output (NO)	<b>W-</b> Ground for the Trigger Input	<b>AMAX</b> Digital output MAX
<b>Ū</b> Contamination/Error Output (NC)	<b>O</b> Analog Output	<b>AOK</b> Digital output OK
<b>E</b> Input (analog or digital)	<b>O-</b> Ground for the Analog Output	<b>SY In</b> Synchronization In
<b>T</b> Teach Input	<b>BZ</b> Block Discharge	<b>SY OUT</b> Synchronization OUT
<b>Z</b> Time Delay (activation)	<b>AWV</b> Valve Output	<b>OLt</b> Brightness output
<b>S</b> Shielding	<b>a</b> Valve Control Output +	<b>M</b> Maintenance
<b>RxD</b> Interface Receive Path	<b>b</b> Valve Control Output 0 V	<b>rsv</b> reserved
<b>TxD</b> Interface Send Path	<b>SY</b> Synchronization	Wire Colors according to IEC 60757
<b>RDY</b> Ready	<b>SY-</b> Ground for the Synchronization	<b>BK</b> Black
<b>GND</b> Ground	<b>E+</b> Receiver-Line	<b>BN</b> Brown
<b>CL</b> Clock	<b>S+</b> Emitter-Line	<b>RD</b> Red
<b>E/A</b> Output/Input programmable	<b>±</b> Grounding	<b>OG</b> Orange
<b>IO-Link</b>	<b>SnR</b> Switching Distance Reduction	<b>YE</b> Yellow
<b>PoE</b> Power over Ethernet	<b>Rx+/-</b> Ethernet Receive Path	<b>GN</b> Green
<b>IN</b> Safety Input	<b>Tx+/-</b> Ethernet Send Path	<b>BU</b> Blue
<b>OSSD</b> Safety Output	<b>Bus</b> Interfaces-Bus A(+)/B(-)	<b>VT</b> Violet
<b>Signal</b> Signal Output	<b>La</b> Emitted Light disengageable	<b>GY</b> Grey
<b>BI-D+/-</b> Ethernet Gigabit bidirect. data line (A-D)	<b>Mag</b> Magnet activation	<b>WH</b> White
<b>EN0R5422</b> Encoder 0-pulse 0-0 (TTL)	<b>RES</b> Input confirmation	<b>PK</b> Pink
	<b>EDM</b> Contactor Monitoring	<b>GNYE</b> Green/Yellow