

# Temperature Sensor

## FXDD118

Part Number



- **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
Mechanical Strength	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 x 1; 4-pin
Process Connection	Clamp diameter: 50,5 mm
Process Connection Length (PCL)	214 mm
Probe Length (PL)	200 mm

PT1000

Connection Diagram No.

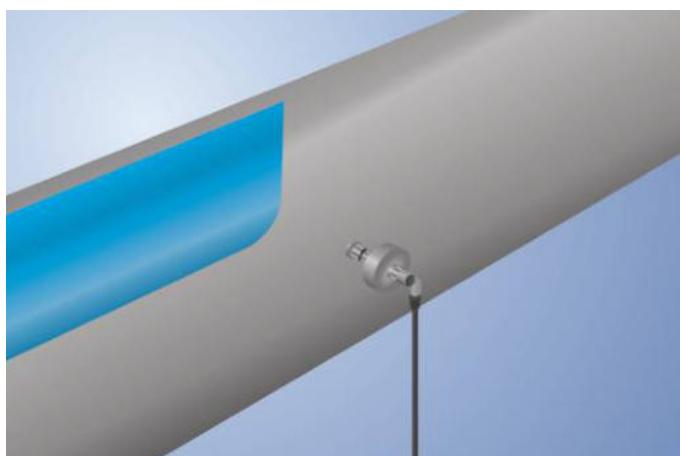
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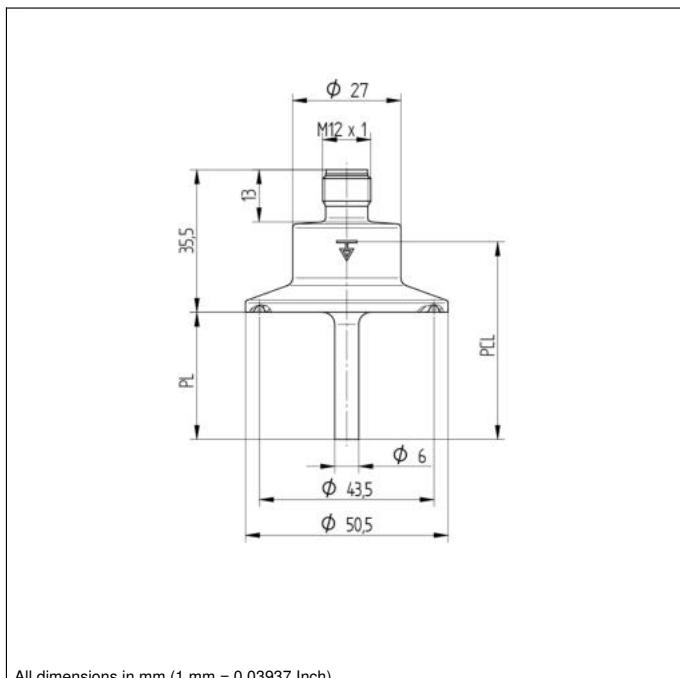
Suitable Connection Technology No.

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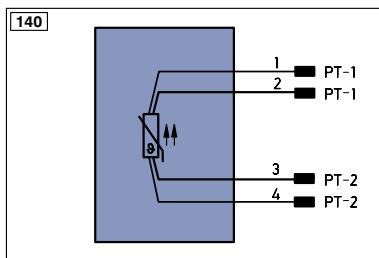
\* Tested by wenglor

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)


**Legend**

PT	Platinum measuring resistor
nc	not connected
U	Test Input
Ü	Test Input inverted
W	Trigger Input
O	Analog Output
O-	Ground for the Analog Output
BZ	Block Discharge
AWV	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
E+	Receiver-Line
S+	Emitter-Line
÷	Grounding
SnR	Switching Distance Reduction
RxD	Interface Receive Path
TxD	Interface Send Path
RDY	Ready
GND	Ground
CL	Clock
E/A	Output/Input programmable
IO-Link	IO-Link
PoE	Power over Ethernet
IN	Safety Input
OSD	Safety Output
Signal	Signal Output
BL-D	Ethernet Gigabit bidirect. data line (A-D)
EN <sub>RS422</sub>	Encoder 0-pulse 0-0 (TTL)
EN <sub>RS422</sub>	Encoder A/A (TTL)
EN <sub>RS422</sub>	Encoder B/B (TTL)

EN <sub>A</sub>	Encoder A
EN <sub>B</sub>	Encoder B
A <sub>MIN</sub>	Digital output MIN
A <sub>MAX</sub>	Digital output MAX
A <sub>OK</sub>	Digital output OK
SY In	Synchronization In
SY OUT	Synchronization OUT
Ol <sub>t</sub>	Brightness output
M	Maintenance

Wire Colors according to  
DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GN/YE	Green/Yellow

