

Temperature Sensor

FXDD002

Part Number

weFlux² InoxSens



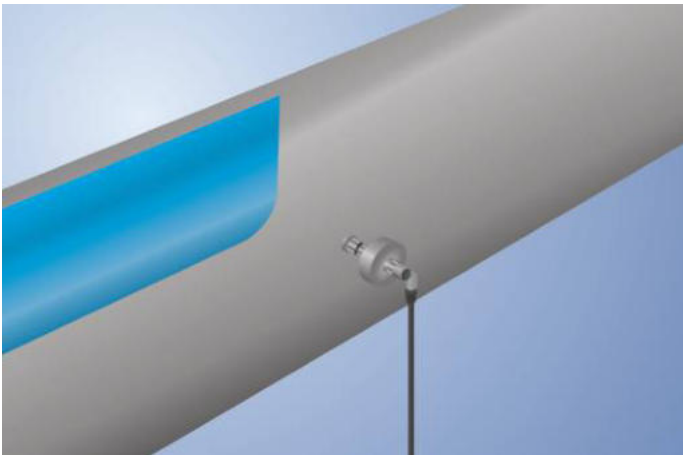
- FDA compliant
- Response time T₉₀: < 2 seconds
- Robust stainless steel housing with IP69K
- Temperature measuring range: -50 ... +200° C

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)	109 mm
Probe Length (PL)	100 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

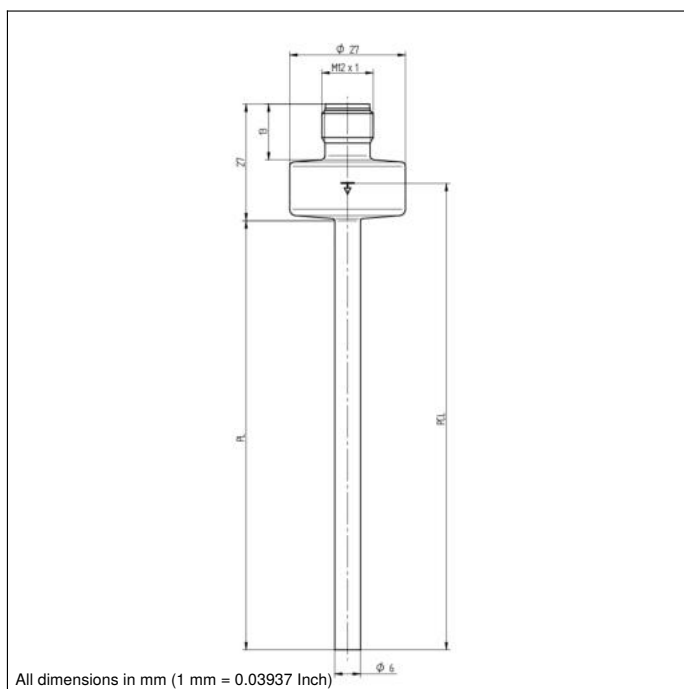
* Tested by wenglor

weFlux² 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.

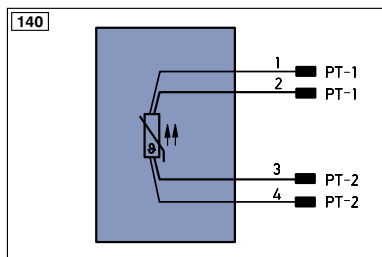


Complementary Products

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
V̄ 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
BL-D+/- Ethernet Gigabit bidirect. data line (A-D)	Mag Magnet activation
EN0.05422 Encoder 0-pulse 0-0 (TTL)	RES Input confirmation
	EDM Contactor 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

