

Temperature Sensor with IO-Link

FXTT014

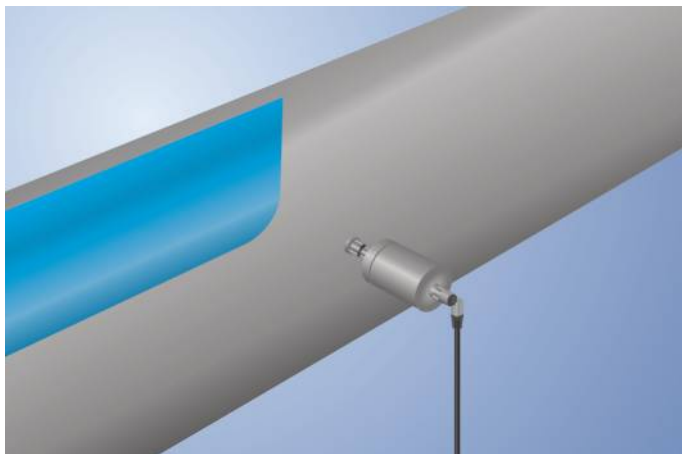
Part Number

weFlux² InoxSens



- FDA compliant
- Ready for Industry 4.0 with IO-Link 1.1
- Response time T90: < 2 seconds
- Temperature measuring range: -50 ... +150° C

weFlux² Temperature Sensors ensure precise temperature measurement of liquids and gases in closed piping systems. Either 2 switching outputs, 1 switching output and 1 analog output or one 2-wire analog output is available depending on settings and connection configuration. The outputs can be configured as desired via IO-Link in order to flexibly adapt the sensors to the respective application.



Technical Data

Sensor-specific data

Temperature Measurement Range	-50...150 °C
Adjustable Range	-50...150 °C
Medium	Liquids, gases
Measuring error	± 0,5 °C
Resolution	0,01 °C
Response Time	< 2 s

Environmental conditions

Temperature of medium	-50...150 °C
Ambient temperature	-25...80 °C
Storage temperature	-25...80 °C
Mechanical Strength	16 bar
EMC	DIN EN 61326-1
Shock Resistance	IEC 60751
Vibration resistance	IEC 60751

Electrical Data

2-wire supply power	12...32 V DC
3-wire supply power	12...32 V DC
Current Consumption (U _b = 24 V)	< 15 mA
Switching Outputs	2
Switching Output/Switching Current	± 100 mA
Switching Output Voltage Drop	< 1,5 V DC
Analog Output	0...10 V/4...20 mA
Current Output Load Resistance	(U _b -U _{bmin})/0,02A
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Protection Class	III
Interface	IO-Link V1.1

Mechanical Data

Setting Method	IO-Link
Housing Material	1.4404
Material in contact with media	1.4404
Degree of Protection	IP68/IP69K *
Connection	M12 × 1; 4-pin
Process Connection	Varivent N
Process Connection Length (PCL)	58 mm
Probe Length (PL)	32 mm

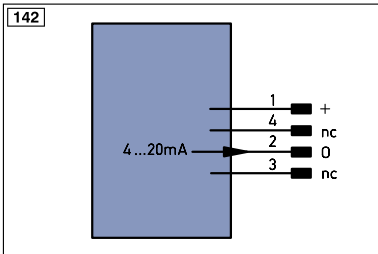
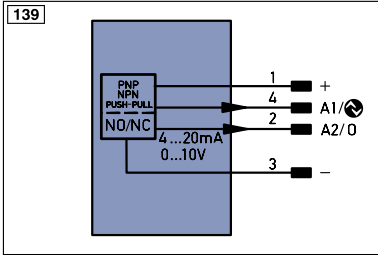
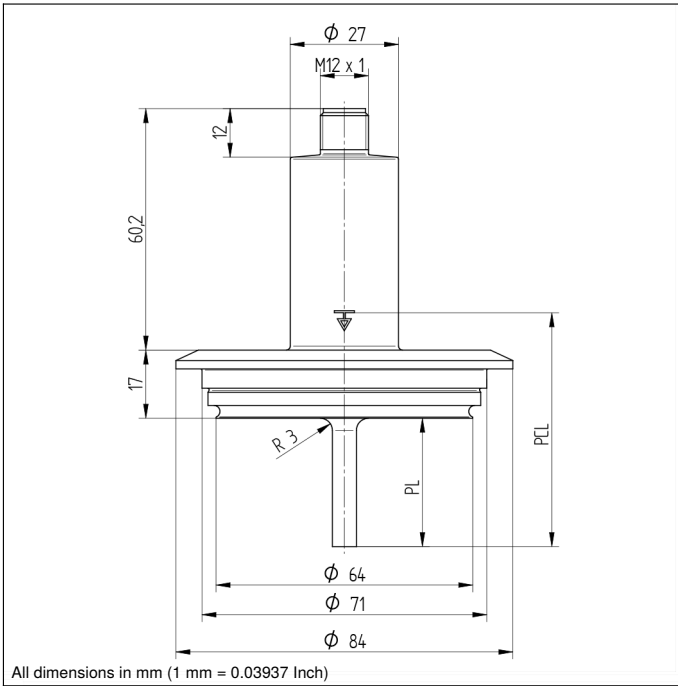
Analog Output	●
Configurable as PNP/NPN/Push-Pull	●
Switchable to NC/NO	●
IO-Link	●

Connection Diagram No.	139
Suitable Connection Technology No.	21

* Tested by wenglor

Complementary Products

IO-Link Master	
wTeach2 software DNNF005	


Legend

+ Supply Voltage +	nc not connected	ENa Encoder A
- Supply Voltage 0 V	U Test Input	ENb Encoder B
~ Supply Voltage (AC Voltage)	U Test Input inverted	AMIN Digital output MIN
A Switching Output (NO)	W Trigger Input	AMAX Digital output MAX
Ā Switching Output (NC)	O Analog Output	AOck Digital output OK
V Contamination/Error Output (NO)	O- Ground for the Analog Output	SY In Synchronization In
ṽ Contamination/Error Output (NC)	BZ Block Discharge	SY OUT Synchronization OUT
E Input (analog or digital)	AWv Valve Output	OLt Brightness output
T Teach Input	a Valve Control Output +	M Maintenance
Z Time Delay (activation)	b Valve Control Output 0 V	
S Shielding	SY Synchronization	
RxD Interface Receive Path	E+ Receiver-Line	
TxD Interface Send Path	S+ Emitter-Line	
RDY Ready	≡ Grounding	
GND Ground	SnR Switching Distance Reduction	
CL Clock	Rx+/- Ethernet Receive Path	
E/A Output/Input programmable	Tx+/- Ethernet Send Path	
IO-Link	Bus Interfaces-Bus A(+)/B(-)	
PoE Power over Ethernet	La Emitted Light disengageable	
IN Safety Input	Mag Magnet activation	
OSSD Safety Output	RES Input confirmation	
Signal Signal Output	EDM Contactor Monitoring	
Bl..D +/- Ethernet Gigabit bidirect. data line (A-D)	ENaRS422 Encoder A/Ā (TTL)	
EN0 RS422 Encoder 0-pulse 0-0 (TTL)	ENbRS422 Encoder B/B̄ (TTL)	

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
GNYE Green/Yellow

