

Temperature Sensor with IO-Link

FXTT019

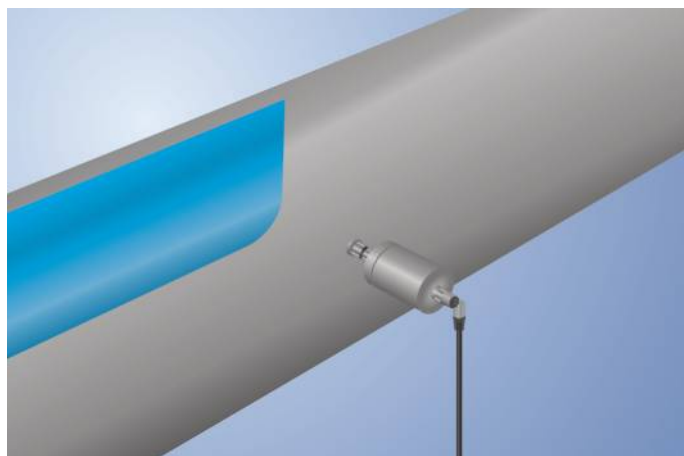
Part Number

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	100 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 (Ub = 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	(Ub-Ubmin)/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	G 1/4"
Process Connection Length (PCL)	85 mm
Probe Length (PL)	50 mm

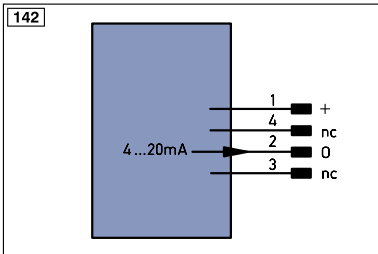
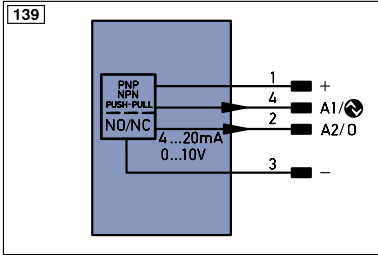
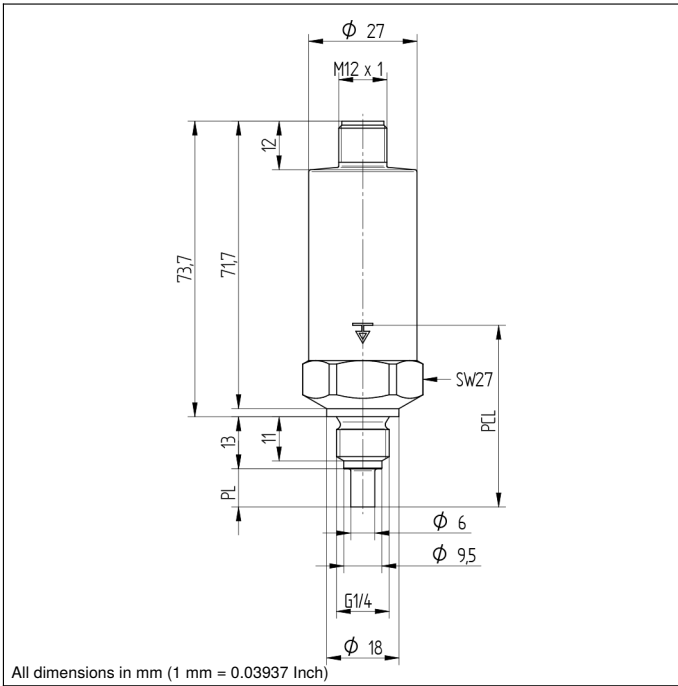
Analog Output	●
Configurable as PNP/NPN/Push-Pull	●
Switchable to NC/NO	●
IO-Link	●

Connection Diagram No.	139
Suitable Connection Technology No.	21
Suitable Mounting Technology No.	901

* Tested by wenglor

Complementary Products

IO-Link Master	
wTeach2 software DNNF005	


Legend

+ Supply Voltage +	nc not connected	PT Platinum measuring resistor	ENa Encoder A
- Supply Voltage 0 V	U Test Input	W Test Input inverted	ENb Encoder B
~ Supply Voltage (AC Voltage)	U Test Input inverted	O Analog Output	AMIN Digital output MIN
A Switching Output (NO)	W Test Input inverted	O- Ground for the Analog Output	AMAX Digital output MAX
Ā Switching Output (NC)	O Analog Output	BZ Block Discharge	AOck Digital output OK
V Contamination/Error Output (NO)	O- Ground for the Analog Output	AWV Valve Output	SY In Synchronization In
ṽ Contamination/Error Output (NC)	BZ Block Discharge	a Valve Control Output +	SY OUT Synchronization OUT
E Input (analog or digital)	AWV Valve Output	b Valve Control Output 0 V	OLt Brightness output
T Teach Input	a Valve Control Output +	SY Synchronization	M Maintenance
Z Time Delay (activation)	b Valve Control Output 0 V	E+ Receiver-Line	
S Shielding	SY Synchronization	S+ Emitter-Line	
RxD Interface Receive Path	E+ Receiver-Line	≡ Grounding	Wire Colors according to DIN IEC 757
TxD Interface Send Path	S+ Emitter-Line	SnR Switching Distance Reduction	BK Black
RDY Ready	≡ Grounding	Rx+/- Ethernet Receive Path	BN Brown
GND Ground	SnR Switching Distance Reduction	Tx+/- Ethernet Send Path	RD Red
CL Clock	Rx+/- Ethernet Receive Path	Bus Interfaces-Bus A(+)/B(-)	OG Orange
E/A Output/Input programmable	Tx+/- Ethernet Send Path	La Emitted Light disengageable	YE Yellow
IO-Link	Bus Interfaces-Bus A(+)/B(-)	Mag Magnet activation	GN Green
PoE Power over Ethernet	La Emitted Light disengageable	RES Input confirmation	BU Blue
IN Safety Input	Mag Magnet activation	EDM Contactor Monitoring	VT Violet
OSSD Safety Output	RES Input confirmation	ENAR5422 Encoder A/Ā (TTL)	GY Grey
Signal Signal Output	EDM Contactor Monitoring	ENBR5422 Encoder B/B̄ (TTL)	WH White
Bl..D+/- Ethernet Gigabit bidirect. data line (A-D)	ENAR5422 Encoder A/Ā (TTL)		PK Pink
EN0R5422 Encoder 0-pulse 0-0̄ (TTL)	ENBR5422 Encoder B/B̄ (TTL)		GNYE Green/Yellow

