

Temperature Sensor with IO-Link

FXTT015

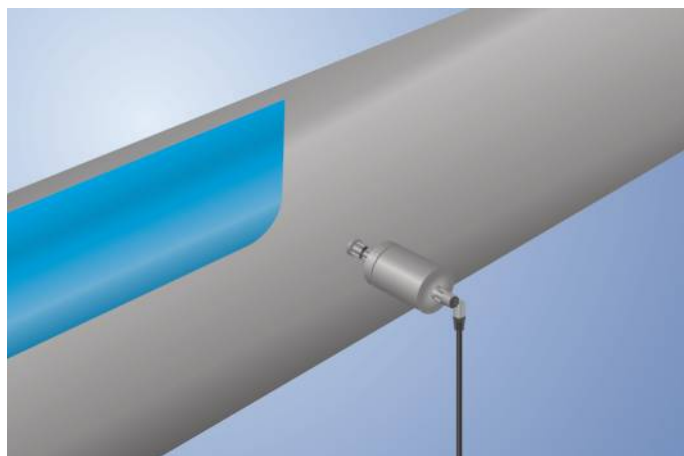
Part Number

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	40 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	Dairy pipe DN25
Process Connection Length (PCL)	54 mm
Probe Length (PL)	36 mm

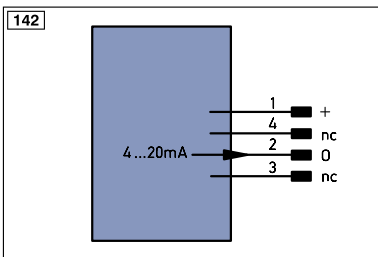
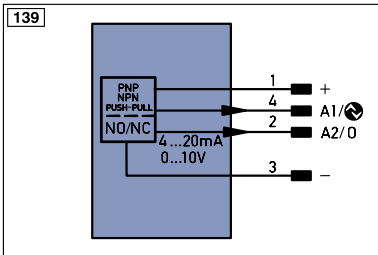
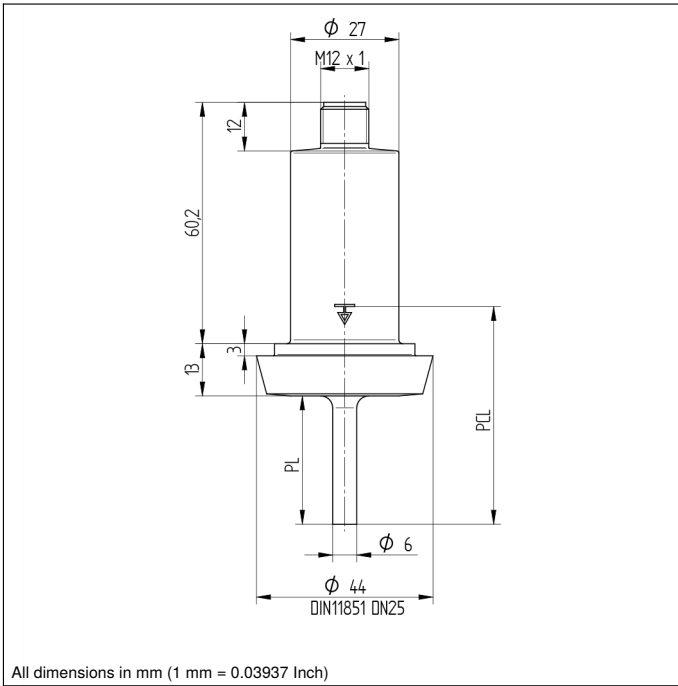
Analog Output	●
Configurable as PNP/NPN/Push-Pull	●
Switchable to NC/NO	●
IO-Link	●

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	PT	Platinum measuring resistor	ENa	Encoder A
-	Supply Voltage 0 V	U	Test Input	ENb	Encoder B	ENb	Encoder B
~	Supply Voltage (AC Voltage)	U	Test Input inverted	AMIN	Digital output MIN	AMIN	Digital output MIN
A	Switching Output (NO)	W	Trigger Input	AMAX	Digital output MAX	AMAX	Digital output MAX
Ā	Switching Output (NC)	O	Analog Output	AOK	Digital output OK	AOK	Digital output OK
V	Contamination/Error Output (NO)	O-	Ground for the Analog Output	SY In	Synchronization In	SY In	Synchronization In
ṽ	Contamination/Error Output (NC)	BZ	Block Discharge	SY OUT	Synchronization OUT	SY OUT	Synchronization OUT
E	Input (analog or digital)	Aw	Valve Output	Out	Brightness output	Out	Brightness output
T	Teach Input	a	Valve Control Output +	M	Maintenance	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	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	Contact Monitoring				
Bl..D+/-	Ethernet Gigabit bidirect. data line (A-D)	ENAR542	Encoder A/Ā (TTL)				
EN0.R542	Encoder 0-pulse 0-0 (TTL)	ENBR542	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

