Temperature Sensor with IO-Link

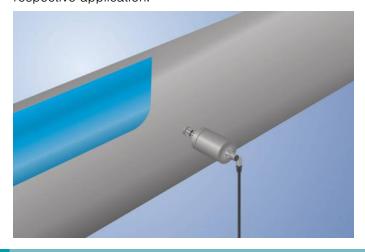
FXTT009

Part Number



- 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.



weFlux² InoxSens

Technical Data

Sensor-specific data			
Temperature Measurement Range	-50150 °C		
Adjustable Range	-50150 °C		
Medium	Liquids, gases		
Measuring error	± 0,5 °C 0,01 °C < 2 s		
Resolution			
Response Time			
Environmental conditions			
Temperature of medium	-50150 °C		
Ambient temperature	-2580 °C		
Storage temperature	-2580 °C		
Mechanical Strength	100 bar		
EMC	DIN EN 61326-1		
Shock Resistance	IEC 60751		
Vibration resistance	IEC 60751		
Electrical Data			
2-wire supply power	1232 V DC		
3-wire supply power	1232 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	010 V/420 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 1/2" CIP-capable		
Process Connection Length (PCL)	60 mm		
Probe Length (PL)	16,4 mm		
Analog Output	•		
Configurable as PNP/NPN/Push-Pull	Ď		
Switchable to NC/NO	Ŏ		
IO-Link	Ŏ		
Connection Diagram No.	139		
Suitable Connection Technology No.	21		
Canada Connocion Toolinology No.			

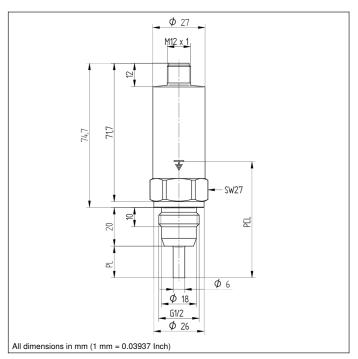
^{*} Tested by wenglor

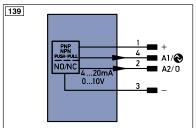
Complementary Products

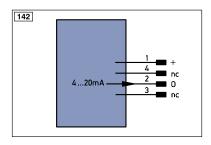
IO-Link Master

wTeach2 software DNNF005









.egen	id	PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +	nc	not connected	ENB	Encoder B	
-	Supply Voltage 0 V	U	Test Input	Amin	Digital output MIN	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX	
Α	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK	
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In	
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT	
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output	
E	Input (analog or digital)	Awv	Valve Output	М	Maintenance	
Т	Teach Input	а	Valve Control Output +			
Z	Time Delay (activation)	b	Valve Control Output 0 V			
S	Shielding	SY	Synchronization		Wire Colors according to	
RxD	Interface Receive Path	E+	Receiver-Line	DIN IEC 757		
TxD	Interface Send Path	S+	Emitter-Line	BK	Black	
RDY	Ready	±	Grounding	BN	Brown	
GND	Ground	SnR	Switching Distance Reduction	RD	Red	
CL	Clock	Rx+/-	- Ethernet Receive Path	OG	Orange	
E/A	Output/Input programmable	Tx+/-	- Ethernet Send Path	YE	Yellow	
②	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green	
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue	
IN	Safety Input	Mag	Magnet activation	VT	Violet	
OSSD	Safety Output	RES	Input confirmation	GY	Grey	
	Signal Output	EDM	Contactor Monitoring	WH	White	
	Ethernet Gigabit bidirect. data line (A-D	ENARS42	² Encoder A/Ā (TTL)	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)		Encoder B/B (TTL)	GNYE	Green/Yellow	













