Temperature Sensor with IO-Link

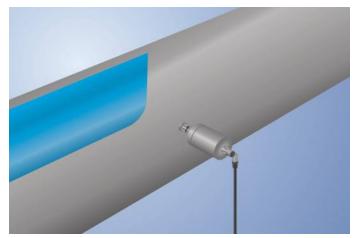
FXTT002

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		
Resolution	0,01 °C		
Response Time	< 2 s		
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);;;;		
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	Cutting/locking ring		
Process Connection Length (PCL)	209 mm		
Probe Length (PL)	200 mm		
Safety-relevant Data	200 1111		
MTTFd (EN ISO 13849-1)	1198,4 a		
	1100,4 u		
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.	907 908		

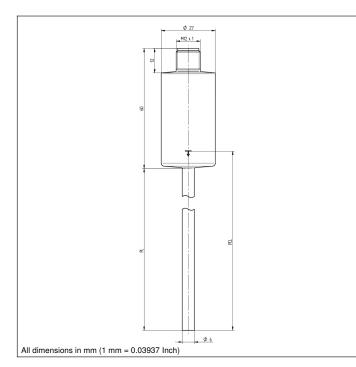
* Tested by wenglor

Technical Data

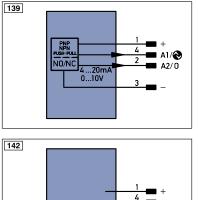
Complementary Products

IO-Link Master wTeach2 software DNNF005





- nc - 0 - nc 2



4...20mA

Legen	d		PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	not connected	ENв	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
А	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
0	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	Signal Output		EDM	Contactor Monitoring	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data	line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
ENOR542	Encoder 0-pulse 0-0 (TTL)		ENBR5422	Encoder B/B (TTL)	GNYE	Green/Yellow

