Temperature Sensor with IO-Link

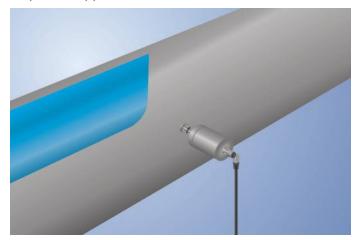
FXTT020

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.



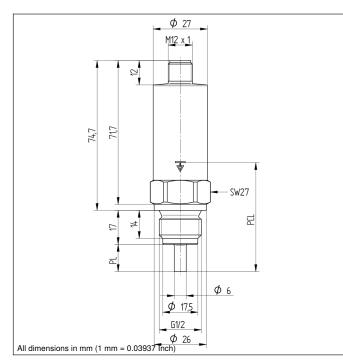
weFlux² InoxSens

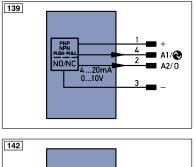
Fechnical Data	
Sensor-specific data	
Temperature Measurement Range	-50150 °C
Adjustable Range	-50150 °C
Medium	Liquids, gases
Measuring error	± 0,5 °C
Resolution	0,01 °C
Response Time	< 2 s
Environmental conditions	
Temperature of medium	-50150 °C
Ambient temperature	-2580 °C
Storage temperature	-2580 °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	G 1/2"
Process Connection Length (PCL)	115,5 mm
Probe Length (PL)	75 mm
Analog Output	
Configurable as PNP/NPN/Push-Pull	
Switchable to NC/NO	
IO-Link	
Connection Diagram No.	139
Suitable Connection Equipment No.	
Suitable Mounting Technology No.	903
Tested by wenglor	

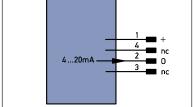
Complementary Products

IO-Link Master Software









Leger	nd	PT	Platinum measuring resistor	ENAR5422	Encoder A/Ā (TTL)
+	Supply Voltage +	nc	not connected	ENBR5422	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B
А	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
Т	Teach Input	Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	а	Valve Control Output +	м	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black
RDY	Ready	E+	Receiver-Line	BN	Brown
GND	Ground	S+	Emitter-Line	RD	Red
CL	Clock	÷	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
0	IO-Link	Rx+/-	 Ethernet Receive Path 	GN	Green
PoE	Power over Ethernet	Tx+/-	- Ethernet Send Path	BU	Blue
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey
Signal	Signal Output	Mag	Magnet activation	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation		Pink
EN0 RS42	₂ Encoder 0-pulse 0-0̄ (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow



