Temperature Sensor with IO-Link

FXTT012

Part Number

Technical Data



weFlux² InoxSens

IO-Link V1.1

Temperature of medium -50...150 °C

Ambient temperature -25...80 °C

Storage temperature -25...80 °C

Mechanical Strength 16 bar

EMC DIN EN 61326-1

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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
 \pm 100 mA

 Switching Output Voltage Drop
 < 1,5 V DC</td>

 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

Mechanical DataSetting MethodIO-LinkHousing Material1.4404

Material in contact with media 1.4404

Degree of Protection IP68/IP69K *

Connection M12 × 1; 4-pin

Process Connection Clamp diameter: 64

Process Connection

Process Connection Length (PCL)

Solution

Clamp diameter: 6
mm

52 mm

32 mm

Analog Output
Configurable as PNP/NPN/Push-Pull
Switchable to NC/NO
IO-Link
Connection Diagram No.

* Tested by wenglor

Suitable Connection Technology No.

Interface



- 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.

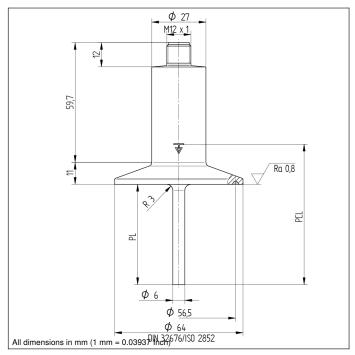


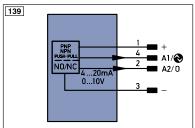
Complementary Products

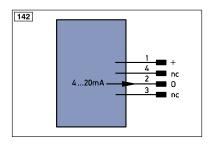
IO-Link Master

wTeach2 software DNNF005









Leger	na	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
Α	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In
٧	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
T	Teach Input	а	Valve Control Output +		
Z	Time Delay (activation)	b	Valve Control Output 0 V		
S	Shielding	SY	Synchronization	Wire Colors according to DIN IEC 757	
RxD	Interface Receive Path	E+	Receiver-Line		
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
•	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) ENARS42	Encoder A/Ā (TTL)	PK	Pink
ENors42	Encoder 0-pulse 0-0 (TTL)		Encoder B/B (TTL)	GNYE	Green/Yellow













