Temperature Sensor with IO-Link

FXTT011

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.

Interface

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 0...10 V/4...20 mA Current Output Load Resistance (Ub-Ubmin)/0,02A Short Circuit Protection ves **Reverse Polarity Protection** yes Protection Class Ш IO-Link V1.1 **Mechanical Data** Setting Method IO-Link 1.4404 Housing Material Material in contact with media 1.4404 Degree of Protection IP68/IP69K * M12 × 1; 4-pin Connection Clamp diameter: 50,5 Process Connection mm Process Connection Length (PCL) 49 mm 32 mm Probe Length (PL) Analog Output Configurable as PNP/NPN/Push-Pull Switchable to NC/NO IO-Link Connection Diagram No. 139

Suitable Connection Technology No. * Tested by wenglor

Technical Data Sensor-specific data Temperature Measurement Range

Adjustable Range

Measuring error

Response Time

Environmental conditions

Temperature of medium Ambient temperature

Storage temperature Mechanical Strength

Shock Resistance

Vibration resistance

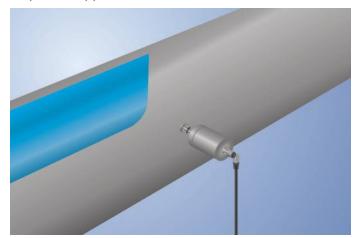
3-wire supply power

Electrical Data 2-wire supply power

Medium

Resolution

FMC



Complementary Products

IO-Link Master wTeach2 software DNNF005

weFlux² InoxSens

-50...150 °C

-50...150 °C

± 0,5 °C 0,01 °C

< 2 s

Liquids, gases

-50...150 °C

-25...80 °C -25...80 °C

25 bar DIN EN 61326-1

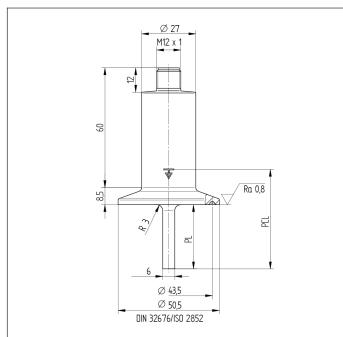
IEC 60751

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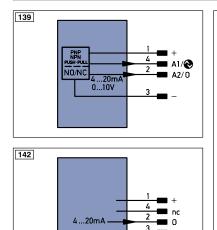
12...32 V DC 12...32 V DC

21





All dimensions in mm (1 mm = 0.03937 lnch)



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
۲	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
ENors422 Encoder 0-pulse 0-0 (TTL)				Encoder B/B (TTL)	GNYE	Green/Yellow



nc