Flow Sensor with IO-Link

FXFF007

Part Number



- A single sensor for flow and temperature
- FDA compliant
- Measurement independent of flow direction and instillation position
- Ready for Industry 4.0 with IO-Link 1.1

weFlux² Flow Sensors simultaneously measure flow velocity and the temperature of aqueous liquids regardless of position and direction of flow. Advantage: The number of measuring points and the diversity of sensor variants are cut in half, and greatest possible flexibility is assured for installation in closed piping systems. Either 2 switching outputs or 1 switching output and 1 analog output are available depending on application requirements. The outputs can be configured as desired via IO-Link in order to flexibly adapt the sensors to the respective application.



Technical Data

Sensor-specific data	
	.400 cm/s
	125 °C**
Temperature of the medium, temperature -25.	150 °C
measurement Adjustable Range 10	.400 cm/s
Medium Wai	
Measuring error ≤2	
Response time in case of temperature jump 10 s	
Environmental conditions	>
	80 °C
	80 °C
	bar
	EN 61326-1
· · · ·	g / 11 ms
· · · · · · · · · · · · · · · · · · ·	(102000 Hz)
Electrical Data	22.1/ 2.2
	.32 V DC
) mA
Switching Outputs 2	
Analog Outputs 1	
Analog Output 0 ⁻	10 V/420 mA
Response Time 1!	ōs
Switching Output/Switching Current ± 10	00 mA
Switching Output Voltage Drop <2	V
Current Output Load Resistance (Ub	-Ubmin)/0,02A
Current Load Voltage Output ≤ 20) mA
Short Circuit Protection yes	
Reverse Polarity Protection yes	
Protection Class III	
Interface IO-I	_ink V1.1
IO-Link Version 1.1	
Mechanical Data	
Setting Method IO-I	_ink
Housing Material 1.44	104
Material in contact with media 1.44	104
Degree of Protection IP6	8/IP69K *
•	2 × 1; 4-pin
Process Connection G 1	· •
Process Connection Length (PCL) 45 r	
Probe Length (PL) 9,5	
Analog output switchable to flow or temperature	
Switching output switchable to flow or temperature	
Switchable to NC/NO	
Configurable as PNP/NPN/Push-Pull	
Connection Diagram No.	139
Connection Diagram No. Suitable Connection Technology No.	139 21 901

* Tested by wenglor

*** The sensors were calibrated and specified for the medium water. Technically, the sensors are suitable for a medium temperature of up to -25 °C. To achieve a temperature below 0 °C, a different medium must be added to the water. This leads to a different measurement result, which is why a use under 0 °C must be tested individually for the mixture used.

Complementary Products

IO-Link Master Software

weFlux² InoxSens







Legen	ıd		PŤ	Platinum measuring resistor	EN A	Encoder A
+	Supply Voltage +		nc	not connected	ENB	Encoder B
-	Supply Voltage 0 V			Test Input	AMIN	Digital output MIN
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	Амах	Digital output MAX
А	Switching Output (N		W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (N		0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output (N	O)		Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output (N	C)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)		Awv	Valve Output	м	Maintenance
Т	Teach Input		а	Valve Control Output +	rsv	reserved
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
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	1	RES	Input confirmation	GY	Grey
Signal	Signal Output		EDM	Contactor Monitoring	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data lin	e (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
	Encoder 0-pulse 0-0 (TTL)	· /		Encoder B/B (TTL)	GNYE	Green/Yellow

