## Flow Sensor with IO-Link

## FXFF004

Part Number

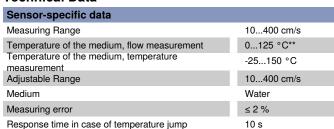


**Environmental conditions** 

**Electrical Data** 

Response Time

**Mechanical Data** 



weFlux<sup>2</sup> InoxSens

1...5 s

Ambient temperature	-2580 °C
Storage temperature	-2580 °C
Mechanical Strength	100 bar
EMC	DIN EN 61326-1
Shock resistance per DIN IEC 68-2-27	30 g / 11 ms
Vibration resistance per DIN IEC 60068-2-6	5 a (102000 Hz)

## 12...32 V DC Supply Voltage < 40 mA Current Consumption (Ub = 24 V) Switching Outputs **Analog Outputs** Analog Output 0...10 V/4...20 mA

- Switching Output/Switching Current ± 100 mA Switching Output Voltage Drop < 2 VCurrent Output Load Resistance (Ub-Ubmin)/0,02A Current Load Voltage Output ≤ 20 mA
- Short Circuit Protection Reverse Polarity Protection yes **Protection Class** Interface IO-Link V1.1 IO-Link Version 1.1
- 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 Sealing cone M18 × 1,5 **Process Connection** Process Connection Length (PCL) 132 mm Probe Length (PL) 100 mm Safety-relevant Data MTTFd (EN ISO 13849-1) 1210 41 a Diagnostic Coverage (DC) 0 % Service Life TM (EN ISO 13849-1) 20 a

Service Life TM (EN 150 13649-1)	20
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.	



Suitable Mounting Technology No. \* Tested by wenglor

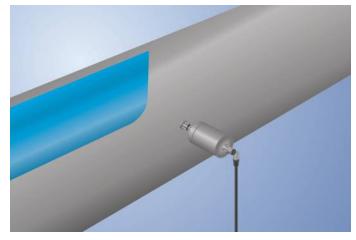
Suitable Connection Technology No.

\*\* 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.



- 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

weFlux<sup>2</sup> 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.

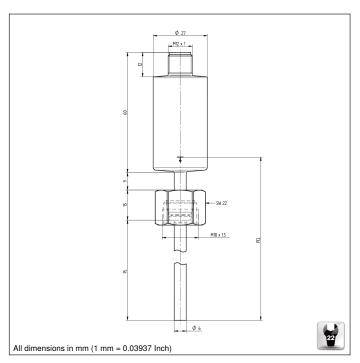


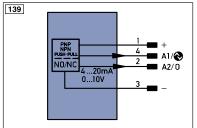
## **Complementary Products**

IO-Link Master

Software







_egen	id		PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +		nc	not connected	ENB	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	Aok	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	
Т	Teach Input		а	Valve Control Output +	rsv	reserved	
Z	Time Delay (activation)		b	Valve Control Output 0 V			
S	Shielding		SY	Synchronization	Wire C	Wire Colors according to	
RxD	Interface Receive Path		E+	Receiver-Line	DIN IE	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	
•	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	
	Ethernet Gigabit bidirect. data	line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow	









