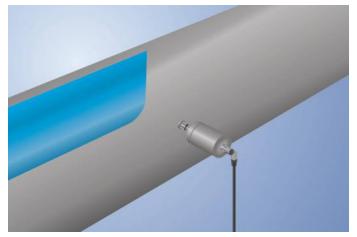
Flow Sensor with IO-Link

FXFF006 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 flow direction. The advantage: The number of measuring points and the diversity of sensor variants are cut in half, ensuring the greatest possible flexibility when installing 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				
Measuring Range	10400 cm/s			
Temperature of the medium, flow measurement	0125 °C**			
Temperature of the medium, temperature measurement	-25150 °C			
Setting Range	10400 cm/s			
Medium	Water			
Measuring error (total)	≤2%			
MTTFd (EN ISO 13849-1)	1210,41 a			
Response time in case of temperature jump	10 s			
Environmental conditions				
Ambient temperature	-2580 °C			
Storage temperature	-2580 °C			
Pressure Resistance	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 g (102000 Hz)			
Electrical Data				
Supply Voltage	1232 V DC			
Current Consumption (Ub = 24 V)	< 40 mA			
Number of Switching Outputs	2			
Number of analog outputs	1			
Analog Output	420 mA			
Signal source	Flow			
Response Time	15 s			
Switching Output/Switching Current	± 100 mA			
Switching Output Voltage Drop	< 2 V			
Load Current Voltage Output	≤ 20 mA			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Protection Class	III			
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	Cutting/locking ring			
Process Connection Length (PCL)	209 mm			
Probe Length (PL)	200 mm			
Analog output flow				
IO-Link				
PNP NO				
Connection Diagram No.	139			
Suitable Connection Equipment No.	2			
Suitable Mounting Technology No.	907 908			
5 55				

* Certified by wenglor

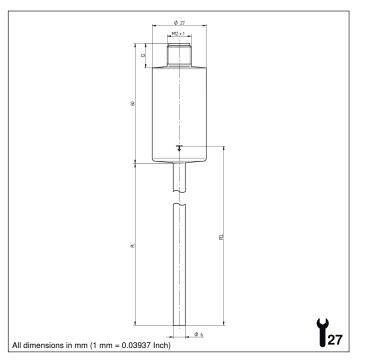
** The sensors were calibrated and specified for the medium water. Technically, the sensors are suitable for a medium temperature of up to -25 °C. To achieve a temperature below 0 °C, a different medium must be added to the water. This leads to a different measurement result, which is why an application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

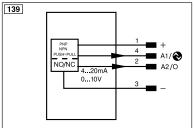
Complementary Products

IO-Link Master Software

weFlux² InoxSens







Legend						
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B	
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	Amax	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	Amv	Valve Output	Olt	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	e Colors according to DIN IEC 60757	
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	
۲	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower 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	PK	Pink	
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)			

