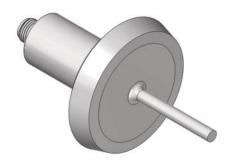
FXFF016

Part Number

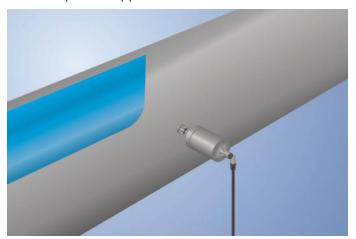
Technical Data





- 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.



Sensor-specific data				
Measuring Range	10400 cm/s			
Temperature of the medium, flow measurement	0125 °C**			
Temperature of the medium, temperature	-25150 °C			
measurement Adjustable Range	10400 cm/s			
Medium	Water			
Measuring error	≤ 2 %			
Response time in case of temperature jump	10 s			
Environmental conditions				
Ambient temperature	-2580 °C			
Storage temperature	-2580 °C			
Mechanical Strength	25 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)	nption (Ub = 24 V) < 40 mA			
Switching Outputs	2			
Analog Outputs	1			
Analog Output	010 V/420 mA			
Response Time	15 s			
Switching Output/Switching Current	± 100 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-Link V1.1			
IO-Link Version	1.1			
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	Dairy pipe DN50			
Process Connection Length (PCL)	73 mm			
Probe Length (PL)	50 mm			
Analog output switchable to flow or temperature	_			
Switching output switchable to flow or temperature				
Switchable to NC/NO				
Configurable as PNP/NPN/Push-Pull				
	100			
Connection Diagram No.	139			
Suitable Connection Technology No.	21			
* Tested by wenglor				

^{*} Tested by wenglor

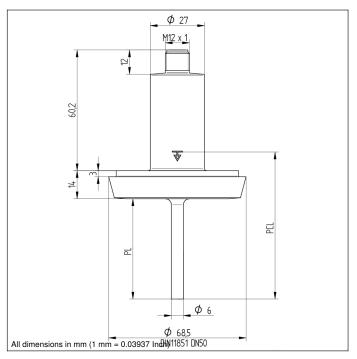
Complementary Products

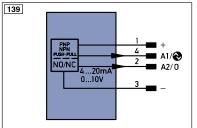
IO-Link Master

Software

^{**} 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.







egen	nd		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	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 +	rsv	reserved	
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 IE	C 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	
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		RES	Input confirmation	GY	Grey	
Signal	Signal Output		EDM	Contactor Monitoring	WH	White	
BI_D+/-	- Ethernet Gigabit bidirect. data	a line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
	2 Encoder 0-pulse 0-0 (TTL)	, ,		Encoder B/B (TTL)	GNYE	Green/Yellow	









