### **Flow Sensor**

# FFXF018

Part Number

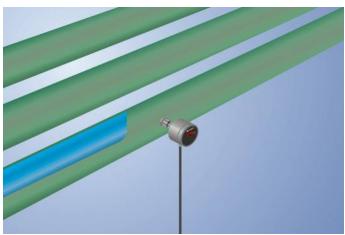


- CIP-capable
- FDA compliant
- Highest precision of its class
- Hygienic design makes it easy to clean
- Measurement independent of flow direction
- Temperature of the medium: 0 ... 60° C (140° C for 24 hours without current measurement)

wenglor UniFlow flow sensors measure the flow rate of aqueous and oily media in closed piping systems.

UniFlow flow sensors are very easy to operate thanks to the removable cover on the integrated display. The highly visible switching status display enables the rapid localization of affected sensors for maintenance processes.

Thanks to the metallic sealing edge on the process connection, no further seals are required.



## InoxSens UniFlow

Technical Data

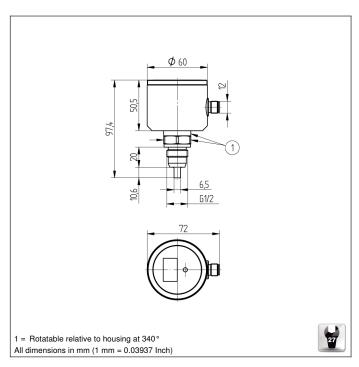
Technical Data		
Sensor-specific data		
Measuring Range	15100 cm/s	
Adjustable Range	20100 cm/s	
Medium	Oil	
Measuring error	2 %	
Switching Hysteresis	5 %	
Temperature gradient	30 K	
Response time in case of temperature jump	10 s	
Environmental conditions		
Temperature of medium	060 °C	
Ambient temperature	-2070 °C	
Mechanical Strength	60 bar	
EMC	DIN EN 60947-5-9	
Shock resistance per DIN IEC 68-2-27	30 g / 11 ms	
Vibration resistance per DIN IEC 60068-2-6	20 g (102000 Hz)	
Electrical Data		
Supply Voltage	1632 V DC	
Current Consumption (Ub = 24 V)	60 mA	
Switching Outputs	1	
Analog Output	420 mA Temp	
Response Time	415 s	
Switching Output/Switching Current	< 250 mA	
Switching Output Voltage Drop	< 2 V	
Current Output Load Resistance	< 500 Ohm	
Short Circuit Protection	yes	
Reverse Polarity Protection	yes	
Protection Class	III	
Mechanical Data		
Setting Method	Menu	
Housing Material	1.4404; PC; EPDM	
Material Control Panel	Polyester	
Material in contact with media	1.4435; 1.4404	
Degree of Protection	IP67/IP69K *	
Connection	M12 × 1; 4-pin	
Process Connection	G 1/2" CIP-capable	
Process Connection Length (PCL)	48 mm	
Probe Length (PL)	10 mm	
Safety-relevant Data		
MTTFd (EN ISO 13849-1)	1194,55 a	
Diagnostic Coverage (DC)	0 %	
Service Life TM (EN ISO 13849-1)	20 a	
Analog output temperature	•	
PNP NO/NC switchable	Ŏ	
Connection Diagram No.	533	
Control Panel No.	A12	
Suitable Connection Technology No.	21	
Suitable Mounting Technology No.	906	
Culturie Wouthing Technology No.	900	

<sup>\*</sup> Tested by wenglor

### **Complementary Products**

Software

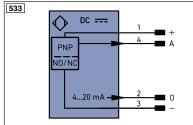




### Ctrl. Panel



- 01 = Switching Status Indicator
- 0A = Detachable lid
- 20 = Enter Button
- 22 = UP Button
- 60 = Display
- 99 = Right button



.egen	10	P	T	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	n	С	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
Α	Switching Output (N	O) V	V	Trigger Input	Аок	Digital output OK
Ā	Switching Output (N	C) C	)	Analog Output	SY In	Synchronization In
٧	Contamination/Error Output (N	O) C	)—	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output (N	C) B	Z	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	A	WV	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	S	Υ	Synchronization	Wire C	colors according to
RxD	Interface Receive Path		+	Receiver-Line	DIN IEC 757	
TxD	Interface Send Path	S	+	Emitter-Line	BK	Black
RDY	Ready	긭	÷	Grounding	BN	Brown
GND	Ground	S	inR	Switching Distance Reduction	RD	Red
CL	Clock	R	x+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Т	x+/-	Ethernet Send Path	YE	Yellow
0	IO-Link	В	us	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet	L		Emitted Light disengageable	BU	Blue
IN	Safety Input	м	lag	Magnet activation	VT	Violet
OSSD	Safety Output	R		Input confirmation	GY	Grey
Signal		E		Contactor Monitoring	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data lin	e (A-D)		Encoder A/Ā (TTL)	PK	Pink
	2 Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow







