Flow Sensor

FFXF031 Part Number

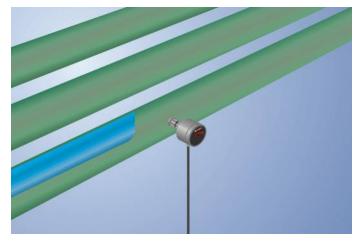


- CIP-capable
- FDA compliant
- Highest precision of its class
- Hygienic design makes it easy to clean
- Measurement independent of flow direction
- Temperature of the medium: 0 ... 60° C (140° C for 24 hours without current measurement)

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

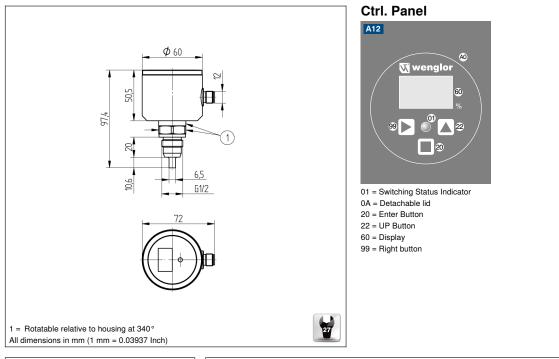
Technical Data

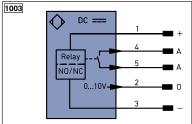
Sensor-specific data			
Measuring Range	15100 cm/s		
Adjustable Range	20100 cm/s		
Medium	Oil		
Measuring error	2 %		
Switching Hysteresis	5 %		
Temperature gradient	30 K		
Response time in case of temperature jump	10 s		
Environmental conditions			
Temperature of medium	060 °C		
Ambient temperature	-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	010 V Temp		
Response Time	415 s		
Relay Output/Switching Current (24 VDC)	< 1 A		
Current Load Voltage Output	< 20 mA		
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)	766,91 a		
Diagnostic Coverage (DC)	0 %		
Service Life TM (EN ISO 13849-1)	20 a		
Analog output temperature			
Relay NO/NC switchable	Ă		
· · ·	1003		
Connection Diagram No. Control Panel No.	A12		
Suitable Connection Technology No.	21		
Suitable Connection Technology No.	906		
	300		

* Tested by wenglor

Complementary Products Software







Legen	d		PŤ	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	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
А	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 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
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		Violet
OSSD	Safety Output		RES	Input confirmation	GY	Grey
Signal	Signal Output		EDM	Contactor Monitoring		White
BI_D+/-	Ethernet Gigabit bidirect. data	line (A-D)	ENARS422	Encoder A/Ā (TTL)		Pink
ENORS42	Encoder 0-pulse 0-0 (TTL)		ENBR5422	Encoder B/B (TTL)	GNYE	Green/Yellow

