Flow Sensor

InoxSens UniFlow

FFXF024 Part Number

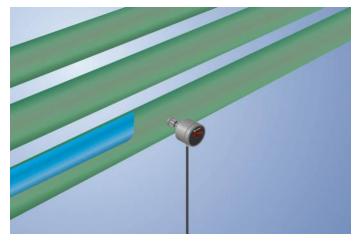


- CIP-capable
- FDA compliant
- Highest precision of its class
- Hygienic design makes it easy to clean
- Measurement independent of flow direction
- Temperature of the medium: 0 ... 60° C (140° C for 24 hours without current measurement)

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.



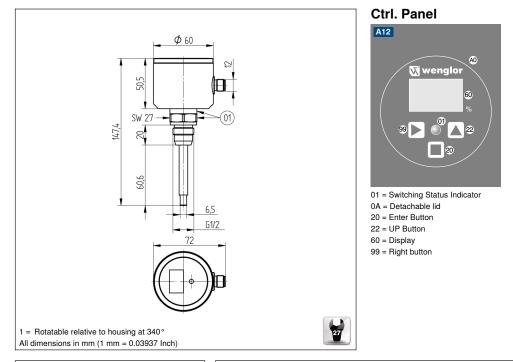
Technical Data

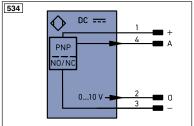
Sensor-specific data							
Measuring Range	15100 cm/s						
Adjustable Range	20100 cm/s						
Medium	Oil						
Measuring error	2 %						
Switching Hysteresis	5 %						
Temperature gradient	30 K						
Response time in case of temperature jump	10 s						
Environmental conditions							
Temperature of 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						
Switching Output/Switching Current	< 250 mA						
Switching Output Voltage Drop	< 2 V						
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)	98 mm						
Probe Length (PL)	60 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	<u> </u>						
Connection Diagram No.	534						
Control Panel No.	A12						
Suitable Connection Technology No.	21						
Suitable Mounting Technology No.	906						

* Tested by wenglor

Complementary Products Software







Legen	ıd		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 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	
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	a line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
ENO RS422	Encoder 0-pulse 0-0 (TTL)		ENBR5422	Encoder B/B (TTL)	GNYE	Green/Yellow	

