Flow Sensor

FFXF025

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

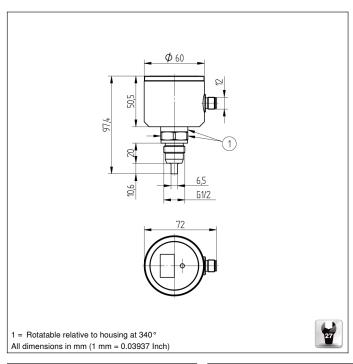
recillical Data				
Sensor-specific data				
Measuring Range	15100 cm/s			
Adjustable Range	20100 cm/s			
Medium	Oil			
Measuring error	2 %			
Switching Hysteresis	5 %			
Temperature gradient	30 K			
Response time in case of temperature jump	10 s			
Environmental conditions				
Temperature of medium	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	3 (
Supply Voltage	1632 V DC			
Current Consumption (Ub = 24 V)	60 mA			
Switching Outputs	1			
Analog Output	420 mA Flow			
Response Time	415 s			
Relay Output/Switching Current (24 VDC)	< 1 A			
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	TOTHIN			
MTTFd (EN ISO 13849-1)	766,91 a			
Diagnostic Coverage (DC)	0 %			
Service Life TM (EN ISO 13849-1)	20 a			
	20 a			
Analog output flow				
Relay NO/NC switchable				
Connection Diagram No.	1002			
Control Panel No.	A12			
Suitable Connection Technology No.	35			
Suitable Mounting Technology No.	906			

^{*} Tested by wenglor

Complementary Products

Software

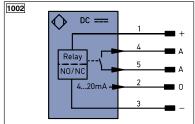




Ctrl. Panel



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



.egen	nd	PT	Γ	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 O	JT Synchronization OUT
V	Contamination/Error Output (NC)	BZ	_	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	SY	1	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	Sn	ıR	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	Bu	s	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet	La		Emitted Light disengageable	BU	Blue
IN	Safety Input	Ma	eq.	Magnet activation	VT	Violet
OSSD	Safety Output	RE		Input confirmation	GY	Grey
Signal	Signal Output	EC		Contactor Monitoring	WH	White
	Ethernet Gigabit bidirect. data line	(A-D) EN		Encoder A/Ā (TTL)	PK	Pink
	Encoder 0-pulse 0-0 (TTL)	. ,		Encoder B/B (TTL)	GNY	E Green/Yellow







