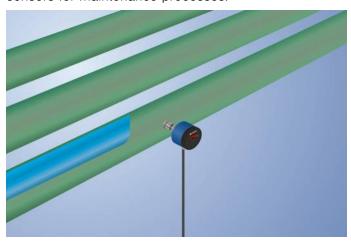
FFAF088

Part Number



- Display can be switched between flow and medium temperature
- Highest precision of its class
- Installation in any position
- Measurement independent of flow direction
- Simple operation via the display
- 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 integrated display. The highly visible switching status display enables the rapid localization of affected sensors for maintenance processes.



Technical Data

i ecililicai Dala					
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				
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	PBT; PC; FKM				
Material Control Panel	Polyester				
Material in contact with media	1.4435; 1.4404; FKM				
Degree of Protection	IP67 *				
Connection	M12 × 1; 4-pin				
Process Connection	Sealing cone M18 ×				
Process Connection Length (PCL)	1,5 124 mm				
Probe Length (PL)	103,5 mm				
Safety-relevant Data	100,5 111111				
MTTFd (EN ISO 13849-1)	1194,55 a				
Diagnostic Coverage (DC)	0 %				
Service Life TM (EN ISO 13849-1)	20 a				
	20 a				
Analog output flow					
PNP NO/NC switchable					
Connection Diagram No.	533				
Control Panel No.	A03				
Suitable Connection Technology No.	21				
Suitable Mounting Technology No.	900 901 902				
* Tested by wenglor					

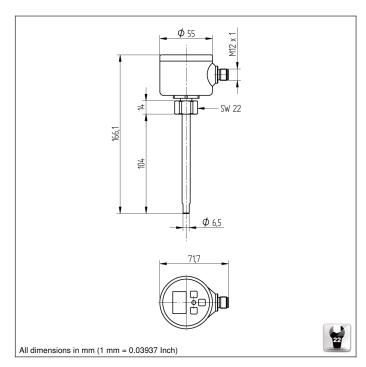
UniFlow

Complementary Products

Software

^{*} Tested by wenglor

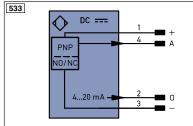




Ctrl. Panel



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



egen	10		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	
٧	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 C	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	VT	Violet	
OSSD	Safety Output			Input confirmation	GY	Grey	
Signal				Contactor Monitoring	WH	White	
BI_D+/-	- Ethernet Gigabit bidirect. data	ine (A-D)		Encoder A/Ā (TTL)	PK	Pink	
	2 Encoder 0-pulse 0-0 (TTL)	, ,		Encoder B/B (TTL)	GNYE	Green/Yellow	







