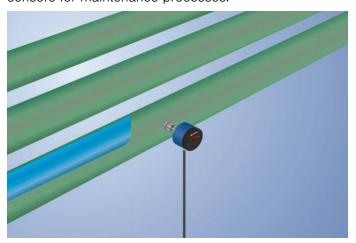
FFAF004

Part Number



- Highest precision of its class
- Installation in any position
- Measurement independent of flow direction
- Simple operation via the display
- Temperature of the medium: 0 ... 100° 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

Sensor-specific data	
Measuring Range	15200 cm/s
Adjustable Range	15200 cm/s
Medium	Water
Measuring error	2 %
Switching Hysteresis	5 %
Temperature gradient	30 K
Response time in case of temperature jump	10 s
Environmental conditions	
Temperature of medium	0100 °C
Temperature of the medium, short-term	140 °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
Response Time	15 s
Switching Output/Switching Current	< 250 mA
Switching Output Voltage Drop	< 2 V
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	G 1/2"
Process Connection Length (PCL)	47 mm
Probe Length (PL)	10 mm
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	1436,42 a
Diagnostic Coverage (DC)	0 %
Service Life TM (EN ISO 13849-1)	20 a
PNP NO/NC switchable	•
Connection Diagram No.	532
Control Panel No.	A03
Suitable Connection Technology No.	2
Suitable Mounting Technology No.	903 905

UniFlow

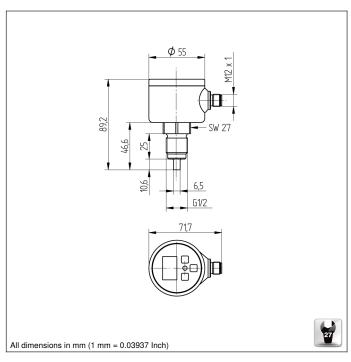
Complementary Products

Seal G1/2" ZH5G002

Software

^{*} Tested by wenglor





Ctrl. Panel



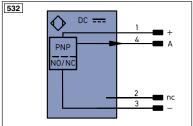
01 = Switching Status Indicator

20 = Enter Button

22 = UP Button

60 = Display

99 = Right button



.egen	nd	P	PΤ	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	n	ıc	not connected	ENB	Encoder B
-	Supply Voltage 0 V	L	J	Test Input	Amin	Digital output MIN
~	Supply Voltage (AC Voltage)	C	j .	Test Input inverted	Амах	Digital output MAX
Α	Switching Output (NO)) V	٧	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)))	Analog Output	SY In	Synchronization In
V	Contamination/Error Output (NO)))-	Ground for the Analog Output	SY OL	T Synchronization OUT
V	Contamination/Error Output (NC)) B	3Z	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	Α	\wv	Valve Output	М	Maintenance
Т	Teach Input	а	ı	Valve Control Output +	rsv	reserved
Z	Time Delay (activation)	b)	Valve Control Output 0 V		
S	Shielding	S	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	닉	⊭	Grounding	BN	Brown
GND	Ground	S	SnR	Switching Distance Reduction	RD	Red
CL	Clock	F	Rx+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Т	Γx+/-	Ethernet Send Path	YE	Yellow
0	IO-Link	В	Bus	Interfaces-Bus A(+)/B(-)	GN	Green
PoF	Power over Ethernet	L		Emitted Light disengageable	BU	Blue
IN	Safety Input	M	/lag	Magnet activation	VT	Violet
OSSD	Safety Output			Input confirmation	GY	Grey
	Signal Output	E		Contactor Monitoring	WH	White
	Ethernet Gigabit bidirect. data line	(A-D) E		Encoder A/Ā (TTL)	PK	Pink
	Encoder 0-pulse 0-Ō (TTL)	. ,		Encoder B/B (TTL)	GNY	Green/Yellow







