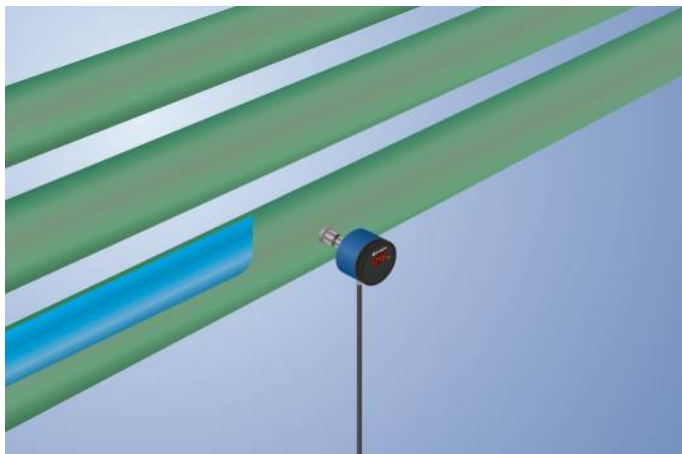




- Highest precision of its class
- Installation in any position
- Measurement independent of flow direction
- Simple operation via the display
- Temperature of the medium: 0 ... 100° C (140° C for 24 hours without current measurement)

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	15...200 cm/s
Adjustable Range	15...200 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	0...100 °C
Temperature of the medium, short-term	140 °C
Ambient temperature	-20...70 °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 (10...2000 Hz)

Electrical Data

Supply Voltage	16...32 V DC
Current Consumption (U _b = 24 V)	60 mA
Switching Outputs	1
Response Time	1...5 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 1/4"
Process Connection Length (PCL)	42 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

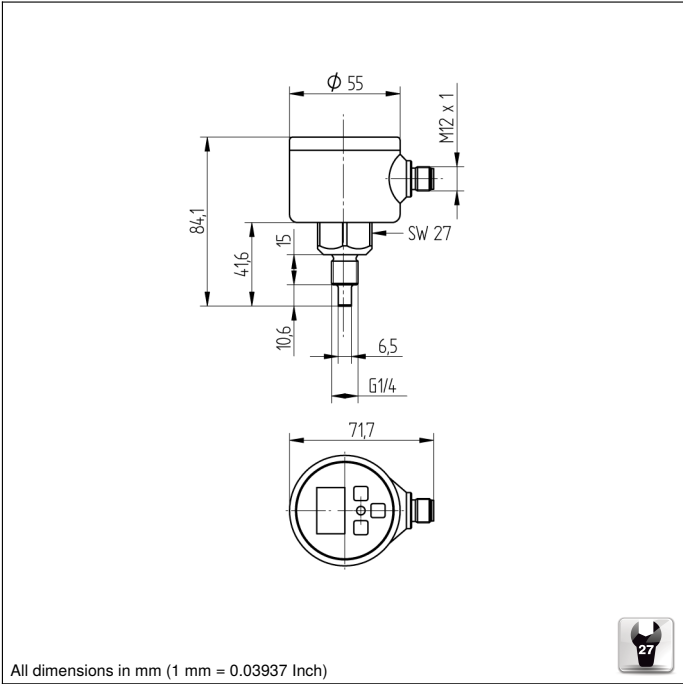
Control Panel No.

A03

Suitable Connection Technology No.

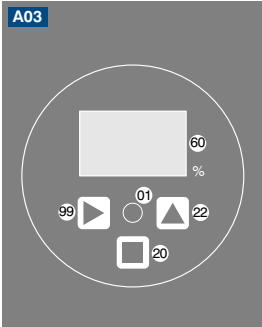
2

* Tested by wenglor

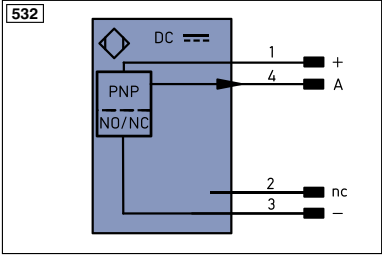


All dimensions in mm (1 mm = 0.03937 Inch)

Ctrl. Panel



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



Legend

+	Supply Voltage +	nc	not connected	ENb	Encoder B
-	Supply Voltage 0 V	U	Test Input	AMIN	Digital output MIN
~	Supply Voltage (AC Voltage)	Ů	Test Input inverted	AMAX	Digital output MAX
A	Switching Output (NO)	W	Trigger Input	AOK	Digital output OK
Ā	Switching Output (NC)	O	Analog Output	SY In	Synchronization In
V	Contamination/Error Output (NO)	O-	Ground for the Analog Output	SY OUT	Synchronization OUT
Ṽ	Contamination/Error Output (NC)	BZ	Block Discharge	Out	Brightness output
E	Input (analog or digital)	AWV	Valve Output	M	Maintenance
T	Teach Input	a	Valve Control Output +	rsv	reserved
Z	Time Delay (activation)	b	Valve Control Output 0 V		
S	Shielding	SY	Synchronization		
RxD	Interface Receive Path	E+	Receiver-Line		
TxD	Interface Send Path	S+	Emitter-Line		
RDY	Ready	±	Grounding		
GND	Ground	SnR	Switching Distance Reduction		
CL	Clock	Rx +/-	Ethernet Receive Path		
E/A	Output/Input programmable	Tx +/-	Ethernet Send Path		
 IO-Link	IO-Link	Bus	Interfaces-Bus A(+)/B(-)		
PoE	Power over Ethernet	La	Emitted Light disengageable		
IN	Safety Input	Mag	Magnet activation		
OSSD	Safety Output	RES	Input confirmation		
Signal	Signal Output	EDM	Contact Monitoring		
BI-D +/-	Ethernet Gigabit bidirect. data line (A-D)	ENAR5422	Encoder A/A (TTL)		
EN0 RS422	Encoder 0-pulse 0-0 (TTL)	ENBR5422	Encoder B/B (TTL)		

Wire Colors according to
DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow

