Flow Sensor with IO-Link

FXFF001

Part Number

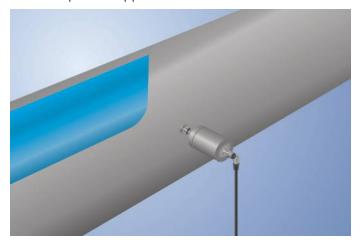






- A single sensor for flow and temperature
- FDA compliant
- Measurement independent of flow direction and instillation position
- Ready for Industry 4.0 with IO-Link 1.1

weFlux² Flow Sensors simultaneously measure flow velocity and the temperature of aqueous liquids regardless of position and direction of flow. Advantage: The number of measuring points and the diversity of sensor variants are cut in half, and greatest possible flexibility is assured for installation in closed piping systems. Either 2 switching outputs or 1 switching output and 1 analog output are available depending on application requirements. The outputs can be configured as desired via IO-Link in order to flexibly adapt the sensors to the respective application.



leasuring Range	10400 cm/s		
	10400 cm/s		
emperature of the medium, flow measurement	0125 °C**		
emperature of the medium, temperature	-25150 °C		
neasurement djustable Range	10400 cm/s		
ledium	Water		
leasuring error	≤ 2 %		
esponse time in case of temperature jump	10 s		
invironmental conditions			
mbient temperature	-2580 °C		
torage temperature	-2580 °C		
lechanical Strength	100 bar		
MC	DIN EN 61326-1		
hock resistance per DIN IEC 68-2-27	30 g / 11 ms		
ibration resistance per DIN IEC 60068-2-6	5 g (102000 Hz)		
Electrical Data	0 g (102000 112)		
upply Voltage	1232 V DC		
current Consumption (Ub = 24 V)	< 40 mA		
witching Outputs	2		
nalog Outputs	1		
nalog Output	010 V/420 mA		
desponse Time	15 s		
•	+ 100 mA		
witching Output/Switching Current			
witching Output Voltage Drop	< 2 V		
current Output Load Resistance	(Ub-Ubmin)/0,02A		
current Load Voltage Output	≤ 20 mA		
hort Circuit Protection	yes		
everse Polarity Protection	yes		
rotection Class			
nterface	IO-Link V1.1		
O-Link Version	1.1		
lechanical Data	IO I inte		
etting Method	IO-Link		
lousing Material	1.4404		
laterial in contact with media	1.4404		
egree of Protection	IP68/IP69K *		
connection	M12 × 1; 4-pin		
rocess Connection	Cutting/locking ring		
rocess Connection Length (PCL)	59 mm		
robe Length (PL)	50 mm		
afety-relevant Data			
ITTFd (EN ISO 13849-1)	1210,41 a		
iagnostic Coverage (DC)	0 %		
ervice Life TM (EN ISO 13849-1)	20 a		
nalog output switchable to flow or temperature			
witching output switchable to flow or temperature			
witchable to NC/NO			
onfigurable as PNP/NPN/Push-Pull	Ŏ		
connection Diagram No.	139		
uitable Connection Technology No.	21		
uitable Mounting Technology No.	907 908		

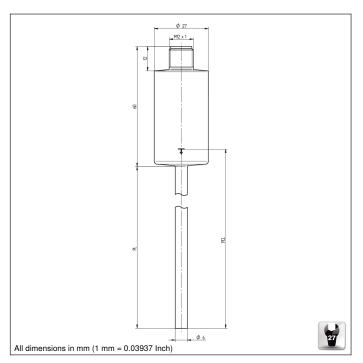
^{*} Tested by wenglor

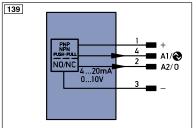
Complementary Products

IO-Link Master	
Software	
ZH6C00x Adapter to G1/4"	

^{**} The sensors were calibrated and specified for the medium water. Technically, the sensors are suitable for a medium temperature of up to –25 °C. To achieve a temperature below 0 °C, a different medium must be added to the water. This leads to a different measurement result, which is why a use under 0 °C must be tested individually for the mixture used.







Legen	d		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	AMAX	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 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	Wire Colors according to	
RxD	Interface Receive Path		E+	Receiver-Line	DIN IE	N 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		RES	Input confirmation	GY	Grey	
	Signal Output		EDM	Contactor Monitoring	WH	White	
Signal		(4.5)	ENL	Encoder A/Ā (TTL)	PK	Pink	
	Ethernet Gigabit bidirect. data	l line (A-D)	LIVAR54ZZ	Elicodel A/A (TTL)			









