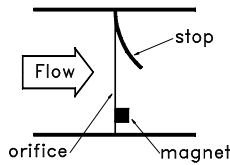




GENERAL CHARACTERISTICS

A thin elastic element placed transversally to the direction of flow is moved by the passage of the liquid and is curved, proportionally to the flow rate, up to its point of stop.



On the elastic element is mounted a magnet encapsulated in a plastic case. The variation of the magnetic field generated by the movement of the magnet is detected by a sensor placed outside the flow chamber.



Stainless steel orifice with magnet encapsulated in plastic

The passage section released by the elastic element is such as to generate a fast response time. The almost complete closure of the transiting area determines a high sensitivity to minimum flow rates. Are not necessary sections of straight pipe upstream and downstream of the device. The integrated electronics generates the standard analogue signals (20 mA, 10 V), switching signals PNP-NPN or frequency. Is optionally available the intelligent electronics Flex or Omni series.



- Hermetic separation between the flow chamber and electrical components.
- Measuring range 1:80
- High accuracy.
- Fast response time.
- High maximum working pressure.
- Low pressure loss.
- Plastic or metal construction.
- Compact size.
- Degree of protection IP67

TECHNICAL DATA

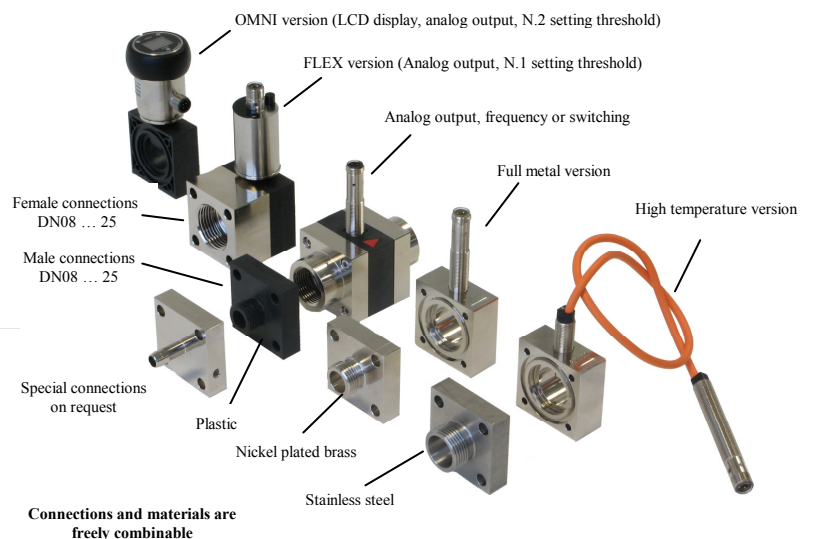
Tab.1

Ø	Type	Materials	PN bar	Weight Kg	T max °C	Measuring range l/min	ΔP max bar	Code		
								Measuring range	DN	
1/4"	XF - 008	Plastic + Metal	16	0,60	70	0,4 - 6,0	0,5	0,4 - 6,0	006	8...25 (*)
		Metal	100	-				1 - 15	015	8...25
3/8"	XF - 010	Plastic	16	0,60	70	1 - 25	0,5	1 - 25	025	10...25
		Metal	100	-				1 - 50	050	15...25
1/2"	XF - 015	Plastic	16	0,60	70	1 - 50	0,5	1 - 80	080	20...25
		Metal	100	-				1 - 100	100	25 (*)
3/4"	XF - 020	Plastic	16	0,65	70	1 - 80	0,5	(*) Measuring range on request		
		Metal	100	-				1 - 80	0,5	
1"	XF - 025	Plastic	16	0,70	70	1 - 80	0,5	(*) Measuring range on request		
		Metal	100	-				1 - 100	0,5	

T max 150°C on request.

DN - Cylindrical thread UNI 228/1	G	Female
	A	Male
Power supply	S	10 - 30 Vdc
	I	15 - 30 Vdc
	F	15 - 30 Vdc
Output	S	Push-pull PNP e NPN
	I	4 - 20 mA
	U	0 - 10 V
	F	Frequency 500 pulses/lt - at 80 l/min
Max. output current	S	200 mA
	F	200 mA
	I	20 mA
	U	20 mA
Short circuit protection		Yes
Reverse polarity protection		Yes
Electrical connection	S	M12x1 - 4 poles
Degree of protection		IP67

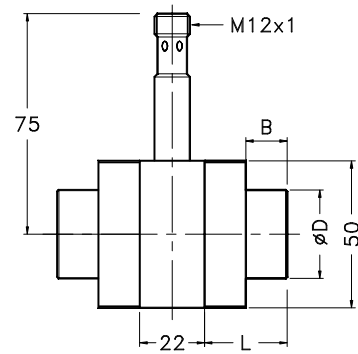
OPTIONS



MATERIALS

Tab.2

Process connections	P	POM
	M	Nickel plated brass
	K	Stainless steel 1.4305
Body	Q	Questa - PPS
	M	Nickel plated brass
	K	Stainless steel 1.4305
Elastic element	-	Stainless steel 14031k
Magnet protection	-	PPS
Screws	-	Stainless steel
Gaskets	V	Viton

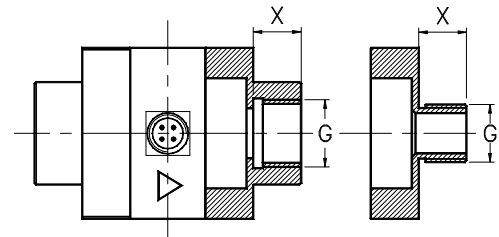


DIMENSIONS

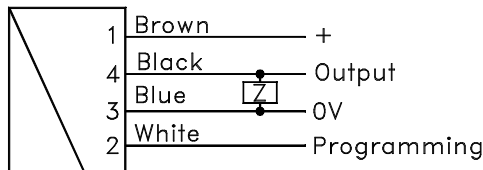
Tab.3

DN	G	L	B	X	ØD
08	1/4"	26	12	12	33
10	3/8"	26	12	12	33
15	1/2"	28	14	14	37
20	3/4"	30	16	16	42
25	1"	30	0	18	-

Dimensions in mm.



WIRING



Before connecting power supply, make sure that the power supply corresponds to the to the rating of the sensor. The on-off outputs can be connected as NPN or PNP without need any hardware or software settings (push-pull driver). It is recommended to use a shielded cable length <30m for the signal output and <10m for supply line.

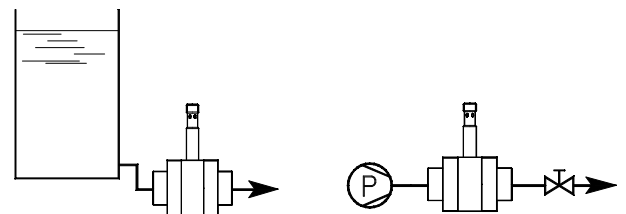
INSTALLATION

The XF sensor can be mounted in any position. For the version for low flow rate (range 0.4 to 6 l / min) the assembly must be with flow from top to bottom.

For all other measuring ranges, if possible, it is advisable an installation with flow from bottom to top or horizontal flow. The instrument is calibrated at the factory for horizontal mounting. Make sure that the sensor is mounted respecting the flow direction indicated by the arrow on the instrument.

The construction is sturdy, however avoid to exert excessive traction or compression on the body during the phases of assembly or disassembly.

If necessary, to replace the measurement elastic element, remove the screws from the assembly between the flanges/connections and the flow chamber. No need to remove the flanges/threaded connections of the pipeline.



Always in contact with the flow.

Upstream of valves / accessories

NOMENCLATURE

XF	025	GM	Q	I	080	V	S	IP67
•								
	•							
		•						
			•					
				•				
					•			
						•		
							•	
								•

-	Type
Tab.1-3	Process connections - DN
Tab.1-2	Thread (female or male) and connections material
Tab.2	Body material
Tab.1	Output signal
Tab.1	Measuring range
Tab.2	Gaskets material
Tab.1	Electrical connection
Tab.1	Degree of protection

K PU 02 S G Connection cable 2m length with M12x1 plug

Accessories - Options