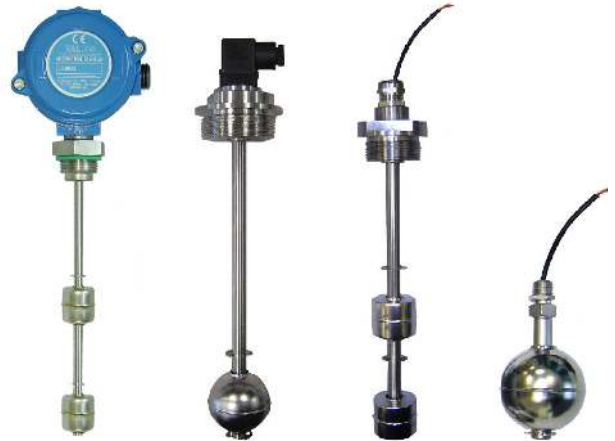


## GENERAL CHARACTERISTICS



The principle of operation of these instruments is based on the drive of one or more magnetic reed contacts, placed inside of the measuring rod, by one or more floats. The only moving element is the float that moves, for buoyancy, along the measuring rod, this guarantees extreme robustness and a limited need for maintenance.

- **Stainless steel – AISI 316**
- Up to 6 switch points. - Up to 6 m length.
- Working pressure up to 50 bars depending on the used float.
- Operating ambient temperature -30/+55°C UR 90%
- Standard working temperature 105°C
- Executions up to 180°C on request.
- Minimum degree of protection IP65
- Built-in temperature sensors, on request.  
PT – PTC – NTC – Thermostat.
- ATEX constructions (See Multipoint E – Multipoint I series)



## FLOATS

Tab.1



Material	Stainless steel – AISI 316									
Specific gravity	0,75		0,55		0,65		0,7		0,6	
Contact type	3	7D	3	7D	4	7	4	7	7	
Max N. of contacts	6	4	6	4	6		6		6	
Max. bar	30		10		10		50		15	
Max. °C - Class					L = 105°C					
On request	N = 130°C - S1 and S2 outputs				R = 150°C				H = 180°C	

## ELECTRICAL CONTACTS

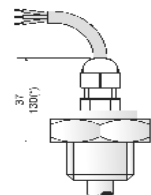
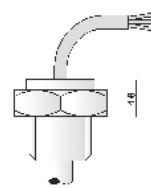
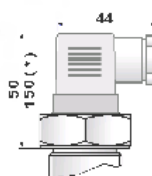
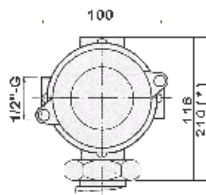
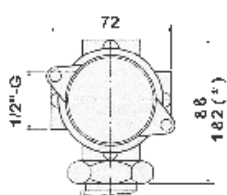
Tab.2

TYPE	POWER		VOLTAGE		CURRENT	
	VA	W	AC	DC	AC	DC
SPST 3	70	50	300	350	0,5	0,7
SPST 4	80	80	250	250	1,3	1,3
SPDT 7	60	60	230	230	1	1
SPDT 7D	20	20	150	150	0,5	0,5

## ELECTRICAL OUTPUT

Tab.3

W1 IP65 Housing	W2 IP65 Housing	S1 – S2 DIN IP65 Plug	C1 – C2 – T1 Cable – Leads	P1 – P2 Cable-gland
Max. 5 terminals	Max. 18 terminals	S1 DIN43650 29x29 S2 DIN43650 15x15	C1 Cable L = 1,5m C2 Cable L = 3,0m T1 Leads L = 1,0m	P1 Brass IP68 P2 Polyamide IP67



With heatsink - see overall dimension (\*)    W1 – W2 = Temperature class H    S1– S2– P1 = Temperature class R – H

## PROCESS CONNECTIONS

Tab.4

Installation from inside C- P-T output				Float type	Installation from outside – available thread and flanges						
06 1/8"	08 1/4"	10 3/8"	15 1/2"		25 1"	32 1 1/4"	40 1 1/2"	50 2"	FSHX Flange	FSPX Flange	DN Flange
All type of floats All type of thread				S29	G	G-C-N	-	-	•	•	•
				S32	G	G-C-N	-	-	•	•	•
				S41	-	-	G-C-N	G-C-N	-	-	•
				S52	-	-	-	G-C-N	-	-	•
				S100	-	-	-	-	-	-	•

### Male thread

G	C	N
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT

### Available materials

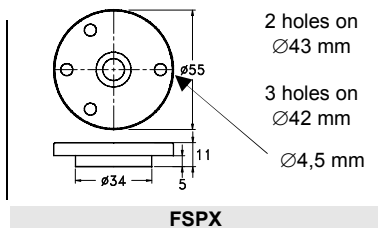
S	T
AISI-316	AISI-304 On request

### DN - Available materials

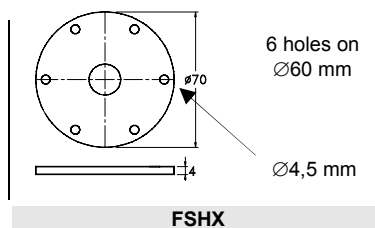
C	S
Steel	AISI-316

### FLANGES

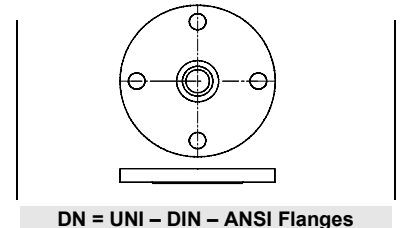
Dimensions in mm.



FSPX



FSHX



DN = UNI - DIN - ANSI Flanges

### WIRING

Tab.5

I	Independent	Separately wired contacts	1	NO
C	Common	Common wired contacts	2	NC
S	Custom	Contacts wired on customer request	3	SPDT

Contacts status in no level conditions

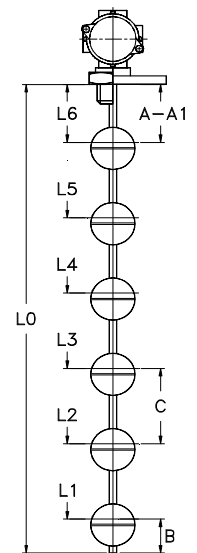
### SWITCH POINTS

Tab.6

The switch points L1 ÷ L6 are measured from the stop of the fitting or flange connection.  
General tolerances on switch points ± 3 mm.

	Minimum distance in mm.									
	S29		S32		S41		S52		S100	
A	20		20		30		35		60	
A1	40		40		50		55		-	
B	25		25		35		40		70	
C	45		45		65		75		125	
Contact type	3	7D	3	7D	4	7	4	7	7	
Max. N. of contacts	6		4		6		4		6	

A Flanged connection  
A1 Threaded connection



### OPTION – Built-in temperature sensor

On request, it is possible to install a temperature sensor located at the bottom of the rod inside the instrument.

PT100 – PT1000	PTC	NTC	TRM (Thermostat)
EN 60751 – IEC 751	Resistance at 25°C ≤ 500 Ω	Resistance at 25°C 2-5-10-50-100 KΩ	40°C ÷ 120°C - 10°C step
Class B – (Class A on request)	Temperature 60°C ÷ 120°C	Precision ± 5% / ± 3% (on request)	Precision ± 5% Differential 10°C ± 4°C

### NOMENCLATURE

M2	S41	4	1300	S	50	G	S	W1	L	I22	L1+L6	
•												Number of contacts S1 / M2+M6
	•											Tab.1 Float
		•										Tab.2 Electrical contact
			•									- Total length = L0 in mm. (See drawing)
				•								Tab.4 Rod material
					•							Tab.4 Process connection dimension
						•						Tab.4 Process connection thread
							•					Tab.4 Process connection material
								•				Tab.3 Electrical output
									•			Tab.1 Temperature class
										•		Tab.5 Wiring and contact status
											•	Tab.6 Switch points (mm)