

GENERAL CHARACTERISTICS



Design for side mounting

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.

- **Brass – Spansil**
- Up to 4 switch points
- Maximum working pressure 20 bar
- Operating ambient temperature -30/+55°C UR 90%.
- Standard working temperature up to 105°C.
- Executions up to 120°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

B13 Ø13,5x30	B28 Ø20x28	B15 Ø25x15	B20 Ø30x20	B45 Ø30x45	B44 Ø44x50

Material	Spansil – Butadiene - Acrylonitrile Copolymer									
Specific gravity	0,59	0,4	0,45	0,4	0,35	0,45				
Contact type	3	3 7D	3	3 7D	3 4 7	4 7				
Max N. of contacts	1	1	3	4	4	4				
Max. bar	10	20	20	20	20	20				
Max. °C - Class	L = 105°C									
On request	M = 120°C									

ELECTRICAL CONTACTS

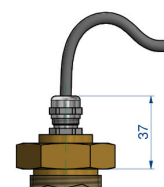
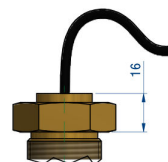
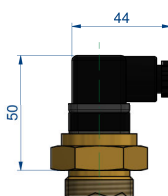
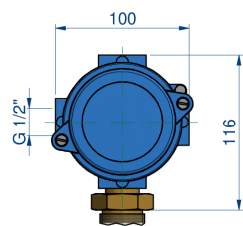
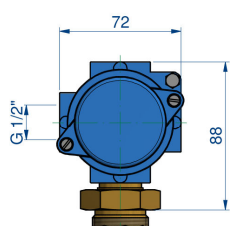
Tab.2

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 = 1,5m	P1 Brass IP68 P2 Polyamide IP67



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"		15 1/2"	20 3/4"	25 1"	32 1¼"	40 1½"	50 2"	FOHX Flange	FOPX Flange	DN Flange
All type of floats All type of thread					B13	G-C-N	-	-	-	-	-	-	-
				B15	-	-	G-C-N	-	-	-	●	●	-
				B20	-	-	G	G-C-N	G-C-N	-	●	●	●
				B28	-	G-C-N	G-C-N	-	-	-	-	-	-
				B44	-	-	-	-	G	G-C-N	-	-	●
				B45	-	-	G	G-C-N	G-C-N	-	●	●	●

Male thread

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

Available materials

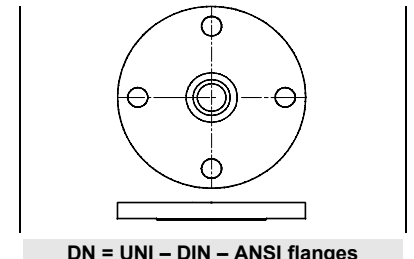
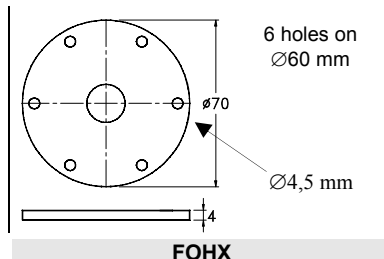
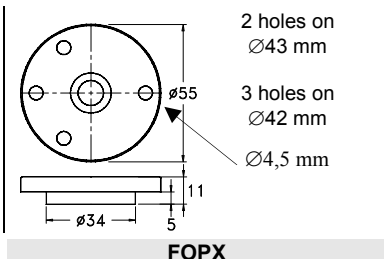
O	D	S
Brass	Anodized aluminium	AISI-316 On request

DN = Available materials

C	S
Steel	AISI-316 On request

FLANGES

Dimensions in mm.



WIRING

Tab.5

I	Independent	Separately wired contacts	1	NO	Contacts status in no level conditions
C	Common	Common wired contacts	2	NC	
S	Custom	Contacts wired on customer request	3	SPDT	

SWITCH POINTS

Tab.6

The switch points L1 ÷ L4 are measured from the axis of the fitting or flange connection.
General tolerances on switch points ± 3 mm.

Minimum distance in mm.							
	B13	B15	B20	B28	B44	B45	
A min.	60	55	60	60	80	60	60
A1 min.	60	55	60	60	80	70	75
B	25	20	20	25	40	35	40
C	-	35	40	-	75	65	75
D max. ►	18	25	24	24	36	24	24
Contact type	3	3	3– 7D	3– 7D	4– 7	3	4– 7
Max. N. of contacts	1	3	4	1	4	4	

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

L2	B45	4	0350/0100	O	25	G	O	W1	L	I22	L1÷L4
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Number of contacts L1÷L4

Tab.1	Float
Tab.2	Electrical contact
-	Length L0 in mm. / Length A 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)