

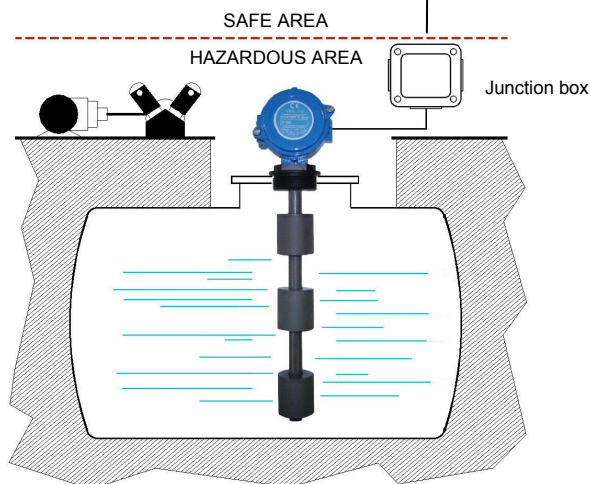
APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 94/9/EC - ATEX

These instruments, intrinsically safe certified:

CESI 03 ATEX 265 Ext.2 II 1G Exia IIC T4/T5/T6 Ga,
CESI 03 ATEX 265 Ext.2 II 1/2G Exia IIC T4/T5/T6 Ga/Gb,
 are used to control the level of liquids or fuel in tanks, both underground and outdoors, installed in hazardous areas where flammable products are treated.



Safety barrier
See SAFE SW

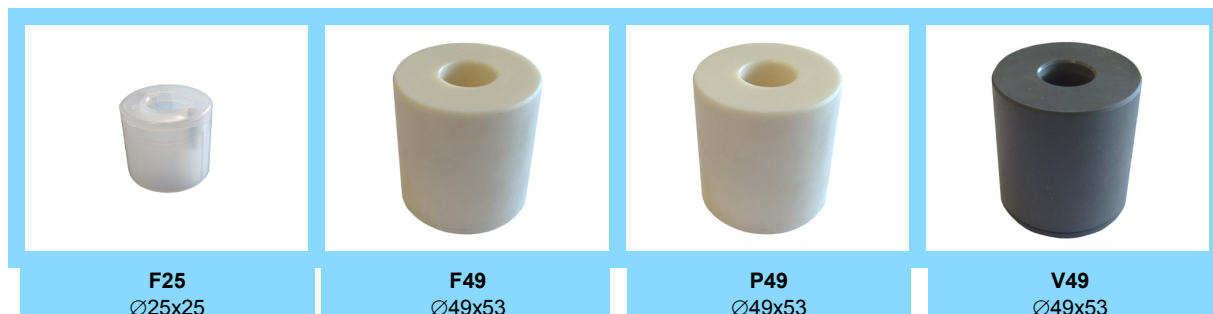


GENERAL CHARACTERISTICS

- **PVC – PP – PVDF**
- Up to 6 switch points.
- Up to 5 m length.
- Maximum working pressure 6 bar depending on used float.
- Standard working temperature up to 100°C.
- Executions up to 130°C on request.
- Operating ambient temperature
 $-40/+40^{\circ}\text{C} = \text{T6}$, $-40/+55^{\circ}\text{C} = \text{T5}$, $-40/+80^{\circ}\text{C} = \text{T4}$
- Minimum degree of protection IP65.

FLOAT

Tab.1



Material	PVDF				PP - Polypropylene		PVC	
Specific gravity	0,65				0,45		0,7	
Contact type	3	7D	4	7	4	7	4	7
Max N. of contacts	4	3	6	6	4	3	4	3
Max. bar	6				3		6	
Max. °C - Class	L = 100°C (T5) (T4) - N = 130°C (T4)				D = 90°C (T6)		B = 60°C (T6)	
On request	N = 130°C (T6) (T5)				-		-	

ELECTRICAL CONTACTS

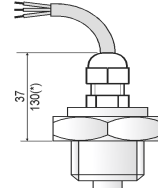
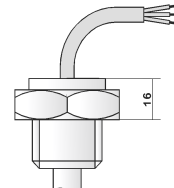
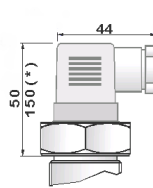
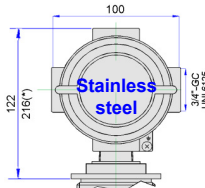
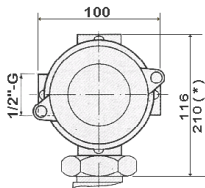
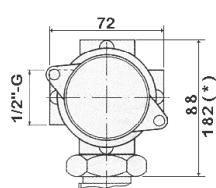
Tab.2

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

I1	I2	I3	IS1	IC1 - IC2	IP1 - IP2
IP65 housing (2G)	IP65 housing (2G)	IP66 housing (1G)	DIN 43650 IP65 (1G)	Cable IP65 (1G)	Cable-gland (1G)
5 terminals	18 terminals	18 terminals	DIN 43650 29x29	IC1 Cable L = 1,5m IC2 Cable L = 3,0m	IP1 Brass IP68 IP2 Polyamide IP67



With heatsink - see dimension (*)

Temperature class N = T6 - T5

Temperature class N = T4 heatsink not needed

PROCESS CONNECTIONS

Tab.4

Installation from inside IC- IP 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"	50 2"	F-HX Flange	DN Flange
All type of floats All type of thread				F25	G-C-N	G-C-N	-	•	•
				F49	-	-	G-C-N	-	•
				P49	-	-	G-C-N	-	•
				V49	-	-	G-C-N	-	•

Male thread

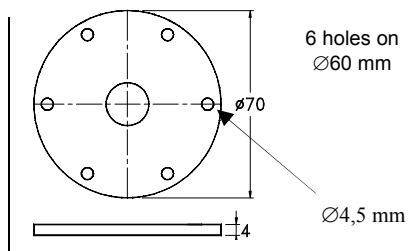
G	C	N
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT

Available materials

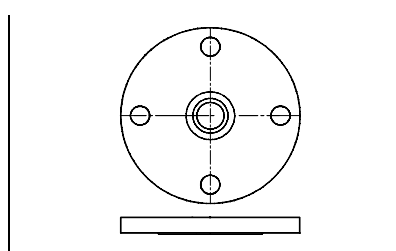
V	P	F	S
PVC	PP	PVDF	AISI-316
On request			

DN - Available materials

V	S
PVC	AISI-316
On request	



FVHX - FPHX - FFHX - FSHX



DN = UNI - DIN - ANSI Flanges

SAFETY BARRIERS

All Exia level controls must be electrically connected to the active or passive barriers according to the European Standard EN 50020. See technical bulletin SAFE SW.

A Flanged connection
A1 Threaded connection

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 request	3	SPDT (*)	

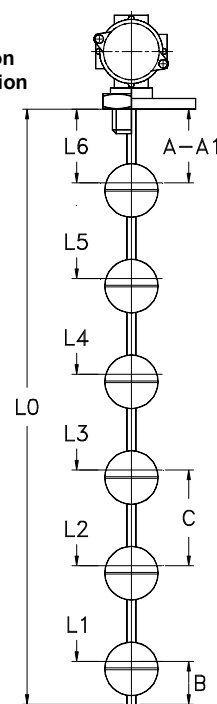
(*) Connected to barrier input just as NO or NC

SWITCH POINTS - minimum value in mm.

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.							
	F25		F49		P49		V49	
A	20		40		40		40	
A1	35		60		60		60	
B	25		40		40		40	
C	50		80		80		80	
Contact type	3	7D	4	7	4	7	4	7
Max. N. contacts	4	3	6	6	4	3	4	3



NOMENCLATURE

M2	V49	4	1300	V	50	G	V	I1	B	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)