

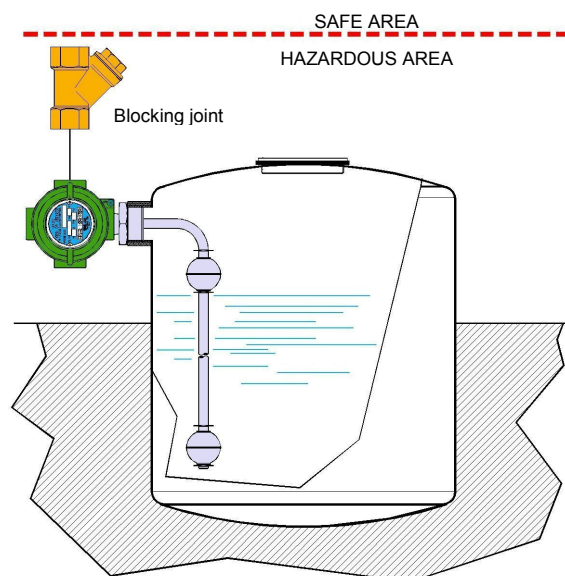
OMOLOGATI IN CONFORMITA' ALLA NORMATIVA EUROPEA 94/9/CE - ATEX

These instruments, explosion-proof certified **CESI 03 ATEX 272 Ext.2 II 1/2G Exd IIC 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.



GENERAL CHARACTERISTICS

- **Stainless steel – AISI 316**
- Up to 6 switch points.
- Up to 6 m length.
- Maximum working pressure 50 bar.
- Standard working temperature up to 100°C.
- Executions up to 160°C on request.
- Operating ambient temperature
-40/+40°C = T6, -40/+60°C = T5
- Minimum degree of protection IP67.
- Built-in temperature sensors, on request.
PT – PTC – NTC – Thermostat (thermoprotector).



FLOATS

Tab.1

			
S29 Ø30x32	S32 Ø30x32	S41 Ø41x35	S52 Ø52

Material	Stainless steel – AISI 316							
Specific gravity	0,75		0,55		0,65		0,7	
Contact type	3	7D	3	7D	4	7	4	7
Max N. of contacts	6	4	6	4	6		6	
Max. bar	30		10		10		50	
Max. °C - Class	L = 100°C							
On request	R = 160°C							

ELECTRICAL CONTACTS

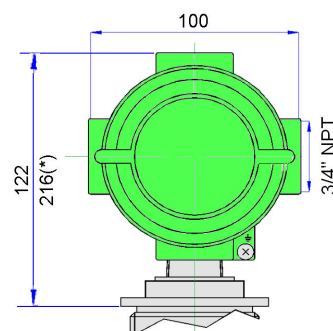
Tab.2

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	6	60	60	230	230	1	1
SPDT	6D	20	20	150	150	0,5	0,5

ELECTRICAL OUTPUT

Tab.3

E1	IP67 Housing Max. 18 terminals
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Heatsink - see dimension (*) Temperature class **R**

We reserve the right to change the data without notice

BE#211/2-21/2015

PROCESS CONNECTIONS

Tab.4

Float type	Installation from outside – available thread and flanges						
	25	32	40	50	FSHX	DN50	DN65
	1"	1¼"	1½"	2"	Flange	Flange	Flange
S29	G	G-C-N	-	-	•	-	-
S32	G	G-C-N	-	-	•	-	-
S41	-	-	G-C-N	G-C-N	•	•	•
S52	-	-	-	G-C-N	-	-	•

Male thread

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

Available materials

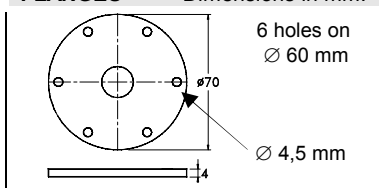
S	T
AISI-316	AISI-304 On request

DN = Available materials

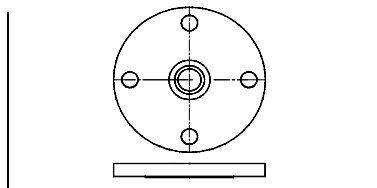
C	S
Steel	AISI-316

FLANGES

Dimensions in mm.



FSHX



DN = UNI – DIN – ANSI flanges

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	

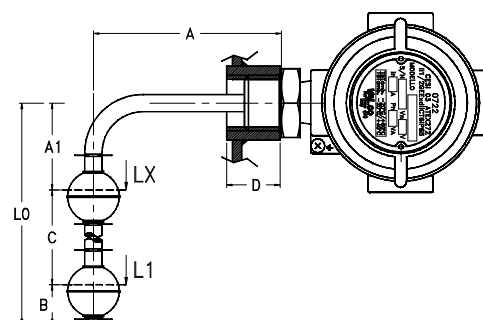
SWITCH POINTS

- minimum value in mm.

Tab.6

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

	Minimum distance in mm.							
	S29	S32	S41	S52				
A min.	60	60	80	80				
A1 min.	60	60	80	80				
B	25	25	35	40				
C	45	45	65	75				
D max ▶	24	24	36	36				
Contact type	3	6D	3	6D	4	6	4	6
Max. N of contacts	6	4	6	4	6		6	



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	TRP (Thermoprotector)
EN 60751 – IEC 751	Resistance at 25°C ≤ 500 Ω	Resistance at 25°C 2-5-10-50-100 KΩ	70°C ÷ 160°C - 10°C step
Class B – A (on request)	Temperature 60°C ÷ 160°C	Precision ± 5% / ± 3% (on request)	Precision ± 5% Differential 40°C

NOMENCLATURE

L2	S41	4	350/100	S	50	G	S	E1	L	I22	L1+L6
•											
	•										
		•									
			•								
				•							
					•						
						•					
							•				
								•			
									•		
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											•

	Number of contacts L1+L6
Tab.1	Float
Tab.2	Electrical contact
-	Total length = L0 mm / Length A mm. (See drawing)
-	Stainless steel 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)

All level controls Exd certified must be connected by interposing the appropriate blocking joints according to the European Standard EN 50018.