

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

These instruments, explosion-proof certified:

**CESI 03 ATEX 272 Ext.2 1/2G Exd IIC T5/T6 G2/Gb**, are used to control the level of liquids or fuels inside tanks, both underground and outdoors, installed in hazardous areas where flammable products are treated.

The principle of operation is potentiometric type, based on the gradual shutdown of a chain of resistors and reed contacts, placed inside of the measuring rod by a magnetic float.



Exd



GOST-R Ex

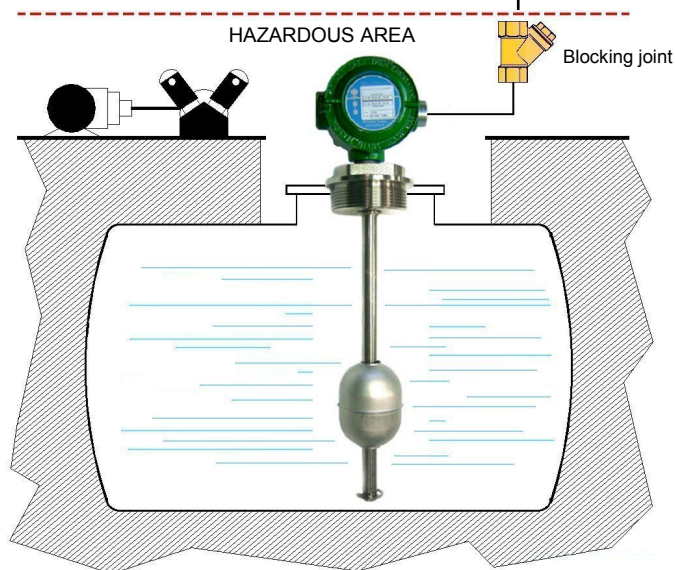


See MULTISIGNAL

SAFE AREA

HAZARDOUS AREA

Blocking joint

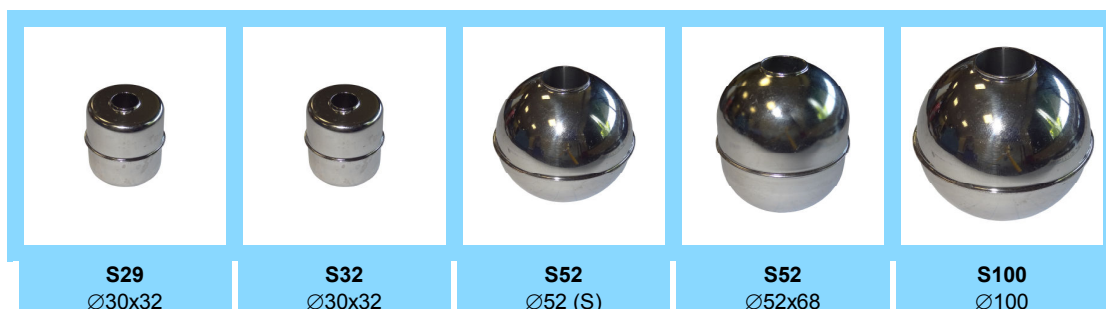


### GENERAL CHARACTERISTICS

- **Stainless steel – AISI 316**
- Measuring resolution 5 – 10 – 20 mm
- Potentiometric signal output **(LC)**.
- 4-20mA analog output **(LCT)**.
- Up to 6 m length depending on the used float.
- Maximum working pressure 50 Bar.
- Working ambient temperature.  
-40/+40°C = T6, -40/+60 °C = T5
- Standard working temperature up to 100°C.  
Execution up to 150°C on request.
- Minimum degree of protection IP67
- Built-in temperature sensors, on request.  
PT – PTC – NTC

### FLOATS

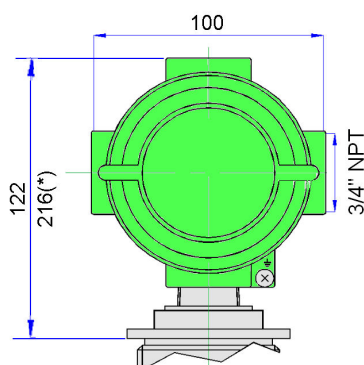
Tab.1



Material	Stainless steel – AISI 316				
Specific gravity	0,75	0,55	0,7	0,65	0,6
Measuring resolution - mm	5	5	5	10 – 20	10 – 20
Max. pressure – Bar	30	10	50	40	15
Max. temperature – Class	L = 100°C				
On request	R = 150°C				

### ELECTRICAL OUTPUT

Tab.2



**E1**  
IP67 Housing

With heatsink - see dimension (\*)  
LC – LCT = Temperature class R



### PROCESS CONNECTIONS

Tab.3

Type of float	Installation from outside – available threads and flange						
	25 1"	32 1¼"	40 1½"	50 2"	FSHX Flange	DN65 Flange	DN125 Flange
S29	G	G-C-N	G-C-N	-	•	-	-
S32	G	G-C-N	G-C-N	-	•	-	-
S52S	-	-	-	G-C-N	-	•	-
S52	-	-	-	G-C-N	-	•	-
S100	-	-	-	-	-	-	•

#### Male thread

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

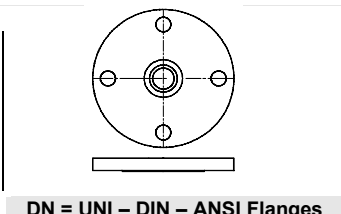
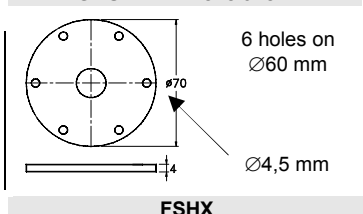
#### Available materials

S	T
AISI-316	AISI-304 On request

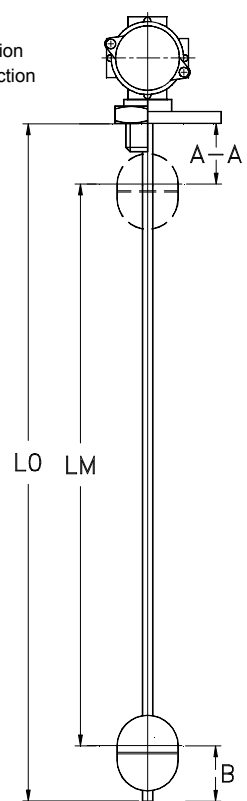
#### DN = Available materials

S	C
AISI-316	Steel On request

### FLANGES Dimensions in mm.

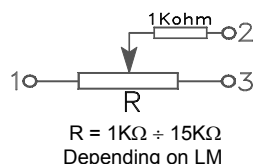


A Flanged connection  
A1 Threaded connection

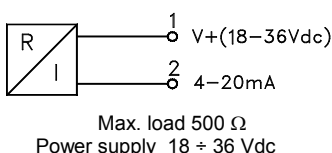


### WIRING

#### POTENTIOMETRIC OUTPUT



#### 4-20 mA output



LC

LCT

### DIMENSIONS

mm.

Tab.4

The dimensions L0 and LM are referred to the stop of the fitting (A1) or flange (A) connection. Tolerance on dimension L0 and LM  $\pm 3$  mm.

	S29	S32	S52 (S)	S52	S100
A	15	15	25	35	50
A1	35	35	45	55	-
B	25	25	35	45	60
Damping tube On request	—	— S AISI-316	— V PVC		

### OPTION – Built-in temperature sensor

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

PT100 – PT1000	PTC	NTC
EN 60751 – IEC 751	Resistance a 25°C $\leq 500 \Omega$	Resistance a 25°C 2-5-10-50-100 K $\Omega$
Class B – A (on request)	Temperature 60°C $\div 150^\circ\text{C}$	Precision $\pm 5\%$ / $\pm 3\%$ (on request)

### NOMENCLATURE

LC	S29	05	1300 / 1360	S	-L	25	G	S	E1	L
•										
	•									
		•								
			•							
				•						
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Type: LC – LCT

Tab.1	Float
Tab.1	Measuring resolution (mm).
Tab.4	Measuring length LM / Total length L0 (mm).
-	Stainless steel rod material.
Tab.4	Presence of damping tube and material (option).
Tab.3	Process connection dimension.
Tab.3	Process connection thread.
Tab.3	Process connection material.
Tab.2	Electrical output.
Tab.1	Temperature class.

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

We reserve the right to change the data without notice

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