

LINEAR S-ATEX E

Continuous level sensor

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



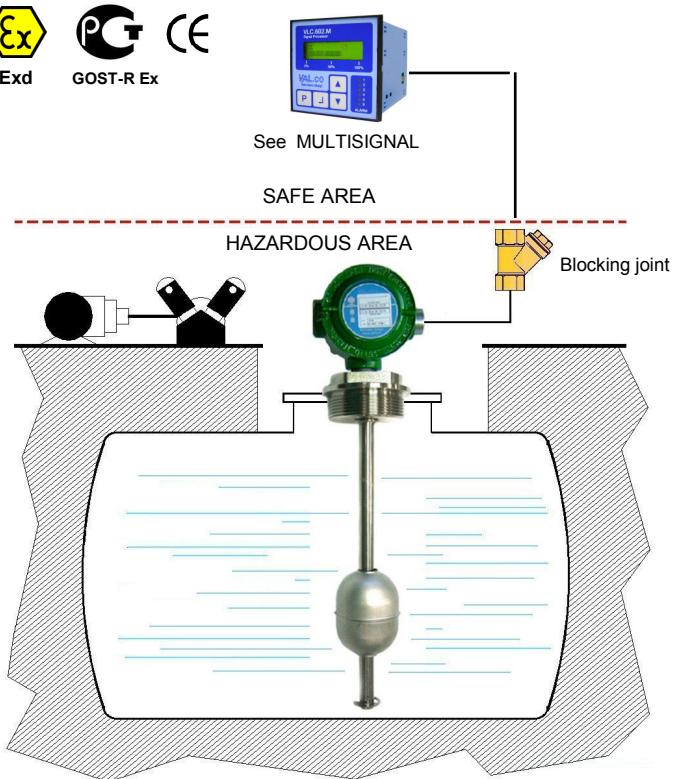
These instruments, explosion-proof certified:

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.

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



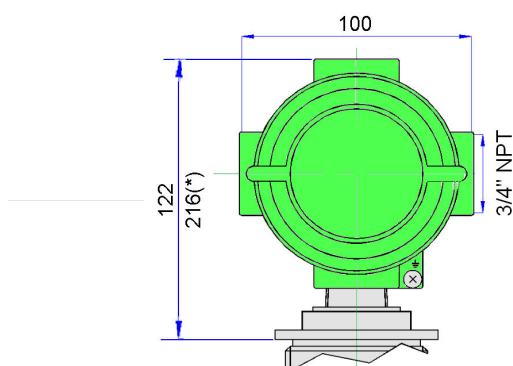
FLOATS

Tab.1

S29 Ø30x32	S32 Ø30x32	S52 Ø52 (S)	S52 Ø52x68	S100 Ø100
Material	Stainless steel – AISI 316			
Specific gravity	0,75	0,55	0,7	0,65
Measuring resolution - mm	5	5	5	10 – 20
Max. pressure – Bar	30	10	50	40
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



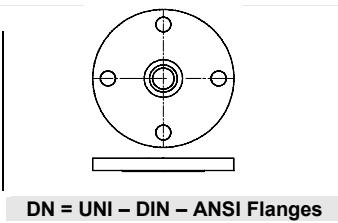
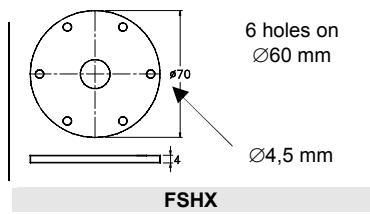
PROCESS CONNECTIONS

Tab.3

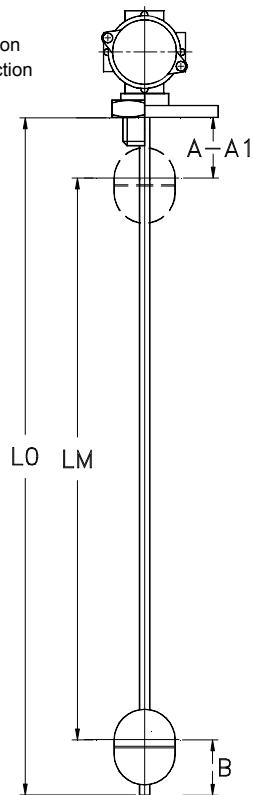
Type of float	25	32	40	50	FSHX	DN65	DN125
	1"	1 1/4"	1 1/2"	2"	Flange	Flange	Flange
S29	G	G-C-N	G-C-N	-	•	-	-
S32	G	G-C-N	G-C-N	-	•	-	-
S52S	-	-	-	G-C-N	-	•	-
S52	-	-	-	G-C-N	-	•	-
S100	-	-	-	-	-	-	•

Male thread	Available materials			DN = Available materials	
G	C	N	S	T	S C
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT	AISI-316	AISI-304 On request	AISI-316 Steel On request

FLANGES Dimensions in mm.

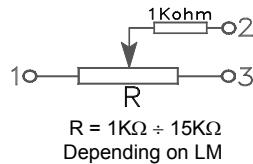


A Flanged connection
A1 Threaded connection

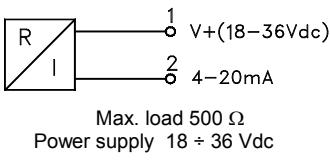


WIRING

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 ± 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	—	— S	— V
On request	—	AISI-316	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

EN 60751 – IEC 751

Class B – A (on request)

PTC

Resistance a 25°C \leq 500 Ω Temperature 60°C \div 150°C

NTC

Resistance a 25°C 2-5-10-50-100 K Ω 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

BE#182/2-02/2015



Level

Flow

Pressure

Temperature

Electronic

VALCO
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