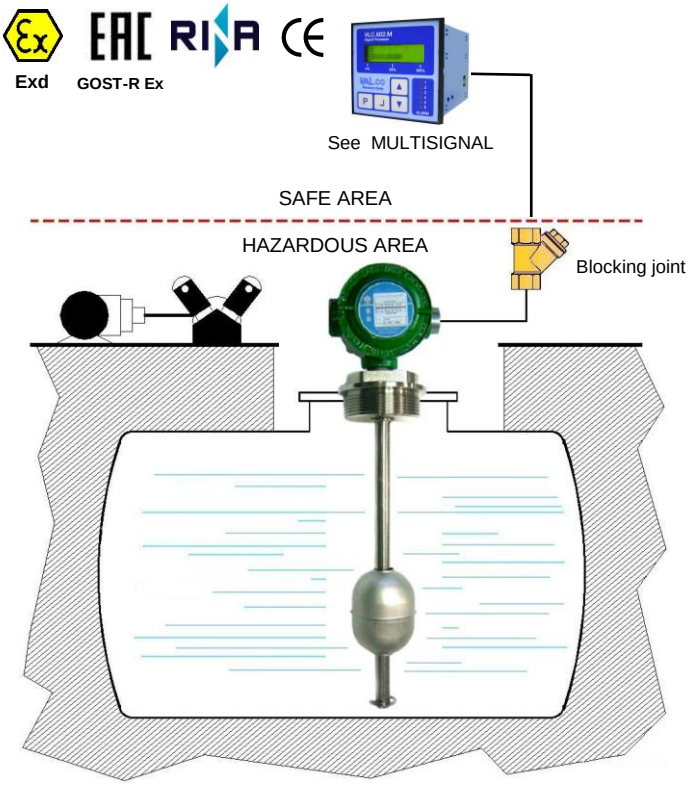
APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 2014/34/EU - ATEX

Exd GOST-R Ex

These instruments, explosion-proof certified:
CESI 03 ATEX 272 Ext.2 1/2G Exdb 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**

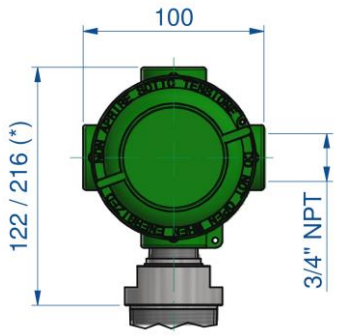
- Measuring resolution 5 – 10 – 20 mm
- Potentiometric signal output **(LC).**
- 4-20mA analog output **(LCT).**
- Up to 6 m length depending on the used float.
- Maximum working pressure 50 Bar.
- Working ambient temperature.
  -40/+40°C = T6, -40/+60 °C = T5
- Standard working temperature up to 100°C.
  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 ∅30x32	S32 ∅30x32	S40 ∅40x52	S41 ∅41x35	S52 ∅52 (S)	S52 ∅52x68	S100 ∅100
Material	Stainless steel – AISI 316						
Specific gravity	0,75	0,55	0,78	0,82	0,7	0,65	0,6
Measuring resolution - mm	5	5	20	10	5	10 – 20	10 – 20
Max. bar	30	10	15	10	50	40	15
Max. °C - Class	**L** = 105°C						
On request	**R** = 150°C						

ELECTRICAL OUTPUT Tab.2



E1	IP66/67 Housing – Aluminum - Epoxy painted
E3	IP66/67 Housing – AISI 316 St. steel

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 - 32	G	G-C-N	G-C-N	-	●	-	-
S40 - 41	-	-	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

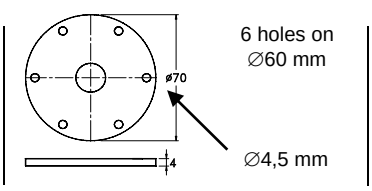
Available materials

S	T
AISI-316	AISI-304 On request

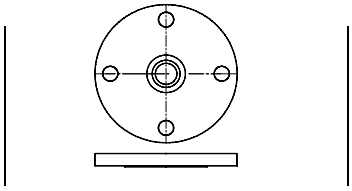
DN = Available materials

S	C
AISI-316	Steel On request

FLANGES Dimensions in mm.

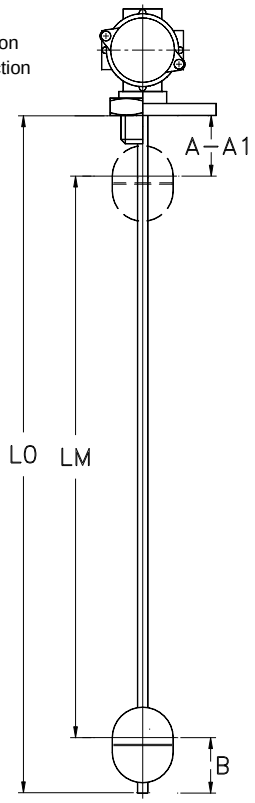


FSHX



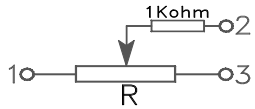
DN = UNI – DIN – ANSI Flanges

A Flanged connection
A1 Threaded connection



WIRING

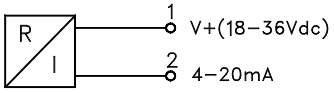
POTENTIOMETRIC OUTPUT



R = 1KΩ ÷ 15KΩ
Depending on LM

LC

4-20 mA output



Max. load 500 Ω
Power supply 18 ÷ 36 Vdc

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	S40	S41	S52 (S)	S52	S100
A	15	15	15	10	25	35	50
A1	35	35	35	30	45	55	-
B	25	25	45	30	30	40	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 ≤ 500 Ω	Resistance a 25°C 2-5-10-50-100 KΩ
Class B – A (on request)	Temperature 60°C ÷ 150°C	Precision ± 5% / ± 3% (on request)

NOMENCLATURE

LC	S29	05	1300 / 1360	S	– L	25	G	S	E1	L		
●												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.

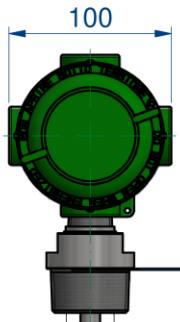
LINEAR S - ATEX E

Request form

External mounting

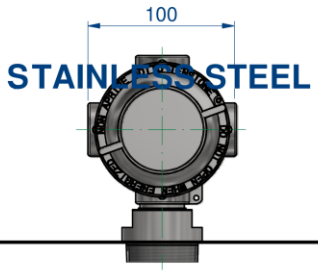
E1

Electrical housing IP 66/67
Aluminum - Epoxy painted



E3

Electrical housing IP66/67
Stainless steel - AISI 316



Total length
L0 (mm)

Measuring length
LM (mm)

Liquid under control: .....

Specific gravity: .....

Maximum pressure: .....

Maximum temperature: .....

Approvals:

Exd GOST-R Ex

Measuring resolution:

☐ 5 mm ☐ 10 mm ☐ 20 mm

Process connection:

☐ Threaded: ..... ☐ Flangiato: .....

Material:

☐ Brass ☐ AISI-316 ☐ PVC ☐ PP ☐ PVDF

Electrical output:

☐ Electrical output:

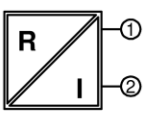
☐ 2-wires potentiometer

☐ Calibrated potentiometer

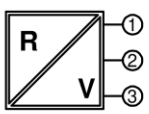
Empty tank = ...ohm

Full tank = ...ohm

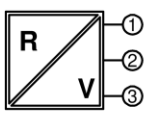
☐ 4 ÷ 20 mA output



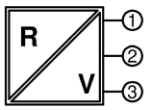
☐ 0.5 ÷ 4.5 V output



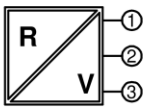
☐ 1 ÷ 5 V output



☐ 0 ÷ 5 V output



☐ 0 ÷ 10 V output



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