



LEVEL



FLOW



PRESSURE



TEMPERATURE



ELECTRONICS



# Датчики уровня взрывозащищенные стандарта АTEX I – ЕАС GOST серии LINEAR – S

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Единый адрес для всех регионов: [vck@nt-rt.ru](mailto:vck@nt-rt.ru) || <https://valco.nt-rt.ru/>

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



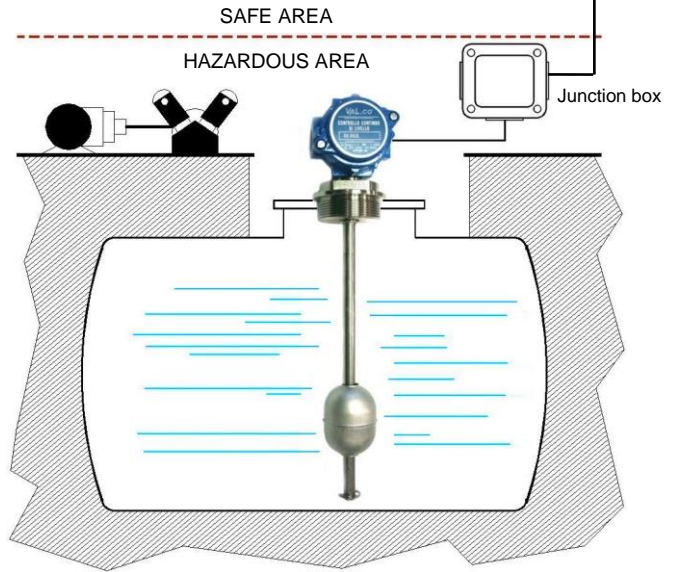
See MULTISIGNAL

See SAFE POT

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 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**).
- 0-10V analog output via safety barrier SAFE POT.
- Up to 6 m length depending on the used float.
- Maximum working pressure 50 Bar.
- Working ambient temperature.  
 -40/+40°C = T6, -40/+55 °C = T5, -40/+80 °C = T4
- Standard working temperature up to 100°C.  
 Execution up to 150°C on request.
- Minimum degree of protection IP65

## FLOATS

Tab.1

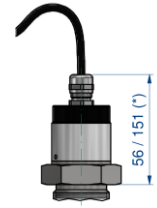
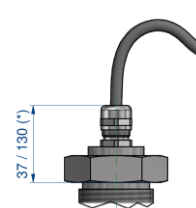
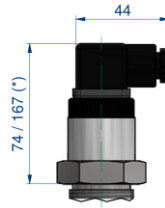
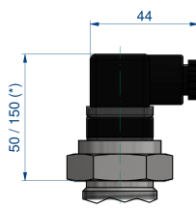
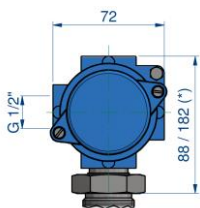


Material	Stainless steel – AISI 316						
Specific gravity	0,75	0,55	0,78	0,82	0,7	0,65	0,6
Measuring resolution - mm	5	5	20	10	5	10 – 20	10 – 20
Max. bar	30	10	15	10	50	40	15
Max. °C - Class	L = 105°C						
On request	R = 150°C						

## ELECTRICAL OUTPUT

Tab.2

I1	I3	IS1	IS1	IP1 - IP2	IP1 - IP2
IP65 Housing (2G)	IP66/67 Housing (1G)	DIN 43650 IP65 (1G)	DIN 43650 IP65 (1G)	Cable gland (1G)	Cable gland (1G)
LC = 3 terminals LCT = 2 terminals	LC = 3 terminals LCT = 2 terminals	DIN 43650 29x29	DIN 43650 29x29	IP1 Brass IP68 IP2 Polyamide IP67	IP1 Brass IP68 IP2 Polyamide IP67



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

## PROCESS CONNECTIONS

Tab.3

Installation from inside only LC = IP1-2		Float type	Installation from outside - available thread and flanges						
10 3/8"	15 1/2"		25 1"	32 1 1/4"	40 1 1/2"	50 2"	FSHX Flange	DN65 Flange	DN125 Flange
All type of floats All type of thread		S29-32	G	G-C-N	G-C-N	-	•	-	-
		S40-41	-	-	G-C-N	G-C-N	-	•	-
		S52 (S)	-	-	-	G-C-N	-	•	-
		S52	-	-	-	G-C-N	-	•	-
		S100	-	-	-	-	-	-	•

### Male thread

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

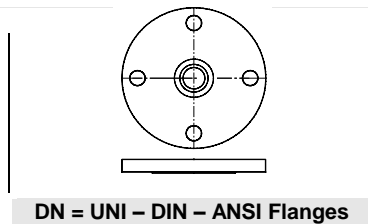
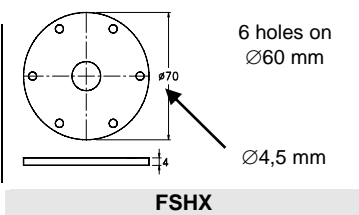
### Available materials

S	T
AISI-316	AISI-304 On request

### DN = Available materials

C	S
Steel	AISI-316

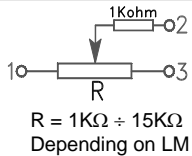
### FLANGES Dimensions in mm.



A Flanged connection  
A1 Threaded connection

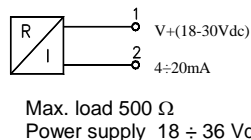
## WIRING

### POTENTIOMETRIC OUTPUT



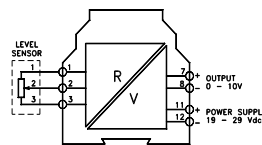
LC

### 4-20 mA OUTPUT



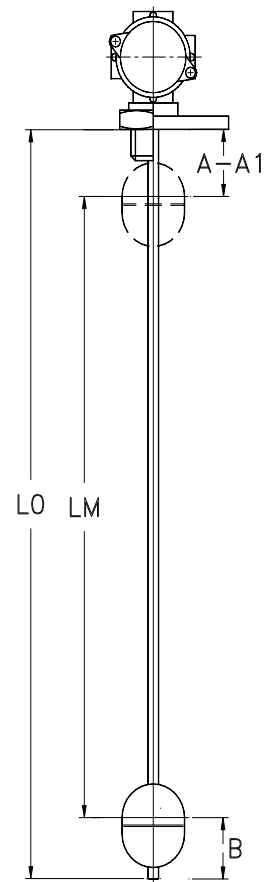
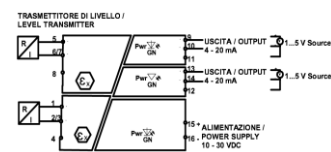
LCT

### 0-10 V output



### 1-5 V output

Available on SAFE ANG barrier



## 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 POT e SAFE ANG.

	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	- V
	AISI-316	PVC

## 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.

## NOMENCLATURE

LC S32 05 1300 / 1360 S - S 25 G S I1 L 1,5 M

•													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 and material of damping tube (option).
						•							Tab.3 Process connection dimension.
							•						Tab.3 Process connection thread.
								•					Tab.3 Process connection material.
									•				Tab.2 Electrical output.
										•			Tab.1 Temperature class.
											•		Tab.2 Cable length (IP1 - IP2) 1,5m / 3m. Other on request.



# LINEAR S - ATEX I



## Request form

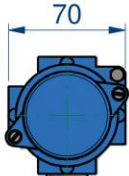
### External mounting

### Internal mounting

I1

Electrical housing IP 65  
LC= 3 terminals  
LCT= 2 terminals

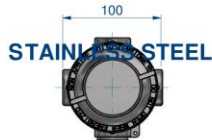
LC/LCT



I3

Electrical housing IP 66/67  
LC= 3 terminals  
LCT= 2 terminals

LC/LCT



IS1

Plug DIN  
43650

LC



IP1

IP1 Cable-gland brass IP68  
IP2 Cable-gland polyamide IP67  
L cable.....mm

LCT



IP2

IP1 Cable-gland brass IP68  
IP2 Cable-gland polyamide IP67  
L cable.....mm

LCT



IC

Only internal mounting  
Cable L.....mm

LC



LM max

L0

Total length L0 (mm)

Measuring length LM (mm)

Liquid under control: .....

Specific gravity: .....

Maximum pressure: .....

Maximum temperature: .....

Approvals:





Exia GOST-R Ex

Measuring resolution:

5 mm       10 mm       20 mm


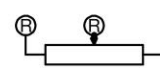
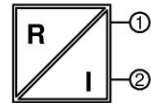

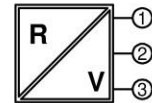
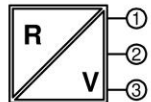
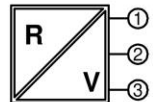
Process connection:

Threaded: .....       Flanged: .....

Material:

Brass       AISI-316       PVC       PP       PVDF

Electrical output:

<input type="checkbox"/> 3-wires potentiometer 	<input type="checkbox"/> 2-wires potentiometer 	<input type="checkbox"/> Calibrated potentiometer Empty tank = .....ohm Full tank = .....ohm
<input type="checkbox"/> 4 ÷ 20 mA output 	<input type="checkbox"/> 0.5 ÷ 4.5 V output 	<input type="checkbox"/> 1 ÷ 5 V output 
<input type="checkbox"/> 0 ÷ 5 V output 	<input type="checkbox"/> 0 ÷ 10 V output 	

## По вопросам продажи и поддержки обращайтесь:

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