LEVEL | FLOW | PRESSURE | TEMPERATURE | ELECTRONICS

Датчики уровня взрывозащищенные стандарта ATEX E – EAC GOST серии LINEAR – O

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Единый адрес для всех регионов: vck@nt-rt.ru || https://valco.nt-rt.ru/

LINEAR O - ATEX E

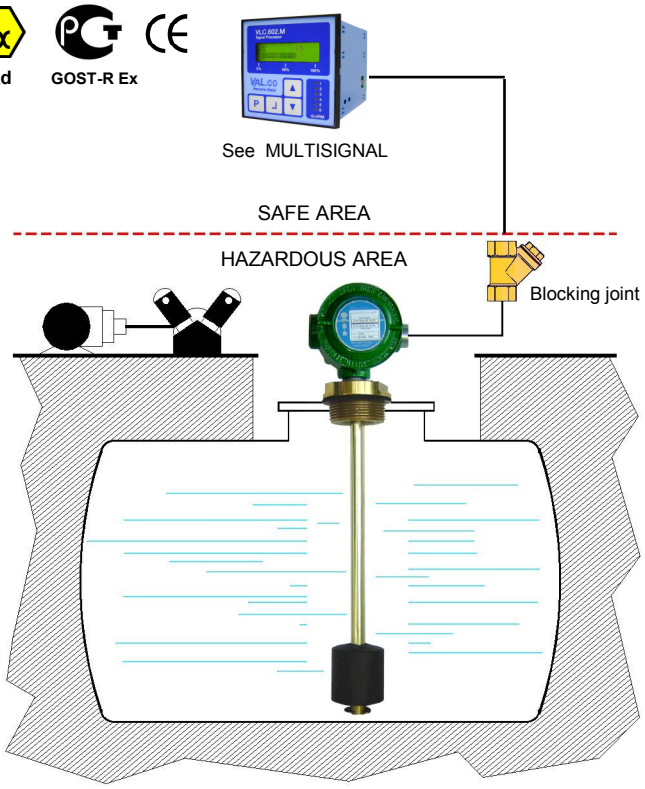
Continuous level sensor

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, bot
and outdoors, installed in hazardous areas where flammable products are treated.

gradual shutdown of a chain of resistors and reed contacts, placed inside of the measuring rod by a magnetic float.

Exd GOST-R Ex



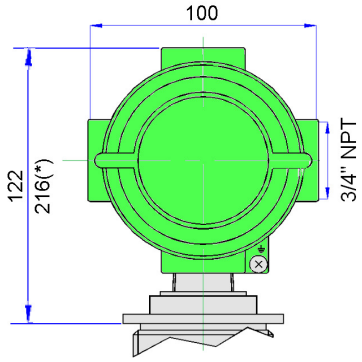
GENERAL CHARACTERISTICS

- **Brass – Spansil – Stainless steel rod**
- 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 20 Bar.
- Working ambient temperature.
  -40/+40°C = T6, -40/+60 °C = T5
- Standard working temperature up to 100°C.
  Execution up to 120°C on request.
- Minimum degree of protection IP65
- Built-in temperature sensors, on request.
  PT – PTC – NTC

FLOATS Tab.1

	B22 Ø20x22	**B28** Ø20x28	**B20** Ø30x20	**B45** Ø30x45	**B44** Ø44x50
Material	Spansil – Butadiene - Acrylonitrile Copolymer				
Specific gravity	0,44	0,4	0,4	0,35	0,45
Measuring resolution - mm	5 – 10	5 – 10	5 – 10	5 – 10 – 20	5 – 10 – 20
Max. pressure – Bar	20	20	20	20	20
Max. temperature – Class	**L** = 100°C				
On request	**M** = 120°C				

ELECTRICAL OUTPUT Tab.2



E1
IP65 Housing

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

PROCESS CONNECTIONS Tab.3

Type of float	Installation from outside – available threads and flange							
	20	25	32	40	50	FOHX	DN50	DN65
	3/4"	1"	1¼"	1½"	2"	Flange	Flange	Flange
B22	G-C-N	G-C-N	-	-	-	●	-	-
B28	G-C-N	G-C-N	-	-	-	●	-	-
B20	-	G	G-C-N	-	-	●	●	-
B45	-	G	G-C-N	G-C-N	-	●	●	-
B44	-	-	-	G	G-C-N	●	●	●

Male thread

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

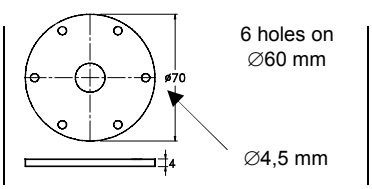
Available materials

O	S
Brass	AISI-316 On request

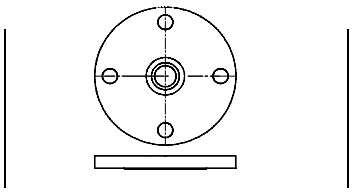
DN = Available materials

C	S
Steel	AISI-316 On request

FLANGES Dimensions in mm.

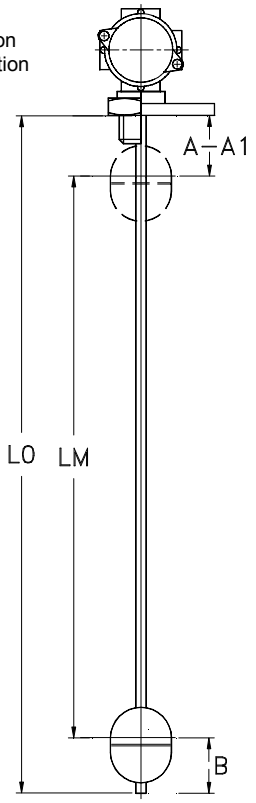


FOHX



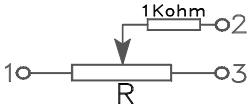
DN = UNI – DIN – ANSI Flanges

A Flanged connection
A1 Threaded connection



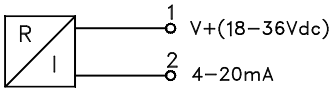
WIRING

POTENTIOMETRIC OUTPUT



R = 1KΩ ÷ 15KΩ
Depending on LM

4-20 mA output



Max. load 500 Ω
Power supply 18 ÷ 36 Vdc

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.

	B22	B28	B20	B44	B45
A	10	15	10	25	25
A1	25	30	30	45	45
B	15	25	20	35	35

Damping tube On request	–	– L	– O	– S
		aluminium	brass	AISI-316

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 ÷ 120°C	Precision ± 5% / ± 3% (on request)

NOMENCLATURE

LC	B45	10	1300 / 1380	S	– L	25	G	O	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.

По вопросам продажи и поддержки обращайтесь:

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