

LINEAR V-F 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 II 1/2G Exd IIB 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.

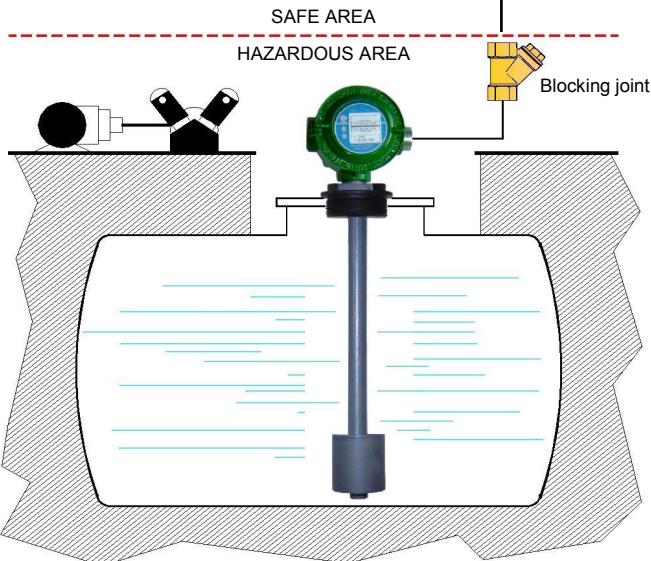
The principle of operation is potentiometric type, based on the
gradual shutdown of a chain of resistors and reed contacts,
placed inside the measuring rod by a magnetic float.



CE



See MULTISIGNAL



GENERAL CHARACTERISTICS

- PVC – PP – PVDF
- Measuring resolution 5 mm.
- Potentiometric signal output (LC).
- 4-20mA analog output (LCT).
- Up to 5 m length.
- Maximum working pressure 6 Bar.
- Working ambient temperature.
-40/+40°C = T6, -40/+60 °C = T5
- Standard working temperature up to 130°C.
- Minimum degree of protection IP67
- Built-in temperature sensors, on request.
PT – PTC – NTC

FLOATS

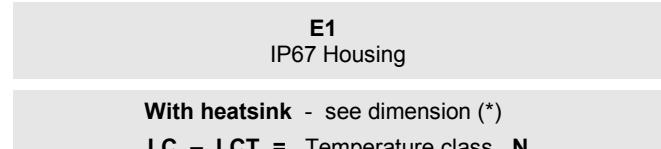
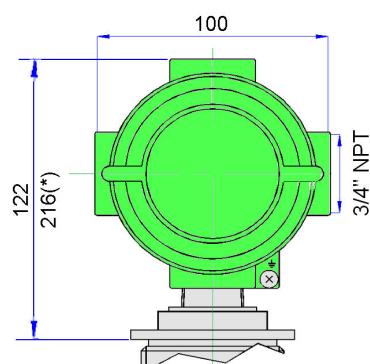
Tab.1



Material	PVDF	PP - Polypropylene	PVC
Specific gravity	0,8	0,45	0,7
Measuring resolution - mm	5	5	5
Max. pressure - Bar	6	3	6
Max. temperature - Class	L = 100°C	D = 90°C	B = 60°C
On request	N = 130°C	-	-

ELECTRICAL OUTPUT

Tab.2



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



Level

Flow

Pressure

Temperature

Electronic

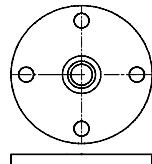
PROCESS CONNECTIONS

Tab.3

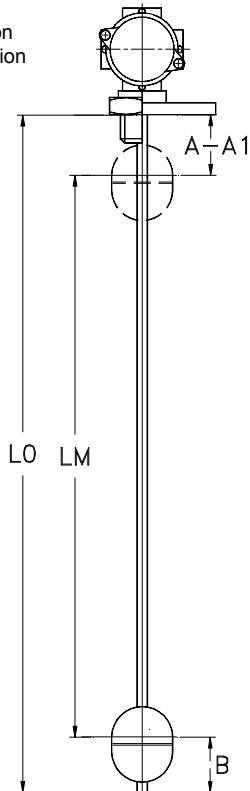
Type of float	50 2"	Installation from outside – available threads and flange		
		DN65 Flange	DN80 Flange	DN100 Flange
F49	•	•	•	•
P49	•	•	•	•
V49	•	•	•	•

Male thread			Available materials			DN = Available materials	
G	C	N	F	P	V	V	S
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT	PVDF	PP	PVC	PVC	AISI 316 On request

FLANGES



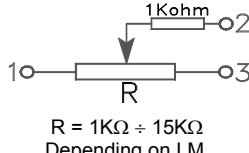
A Flanged connection
A1 Threaded connection



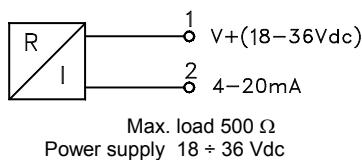
DN = UNI – DIN – ANSI Flanges

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.

	F49	P49	V49
A	25	25	25
A1	45	45	45
B	35	35	35
Damping tube On request	—	—	—
	— V	— S	
	PVC	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

EN 60751 – IEC 751

Class B – (Class A on request)

PTC

Resistance a 25°C ≤ 500 Ω

Temperature 60°C ÷ 130°C

NTC

Resistance a 25°C 2-5-10-50-100 KΩ

Precision ± 5% / ± 3% (on request)

NOMENCLATURE

LC	V49	05	1300 / 1380	V	– V	50	G	V	E1	B
•										
	•									
		•								
			•							
				•						
					•					
						•				
							•			
								•		

Type: LC – LCT

Tab.1 Float

Tab.1 Measuring resolution (mm).

Tab.4 Measuring length LM / Total length L0 (mm).

Tab.3 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#183/2-02/2015



Level

Flow

Pressure

Temperature

Electronic

VALCO
www.valco.it