GENERAL CHARACTERISTICS

The principle of operation is of potentiometric type, based on the gradual shutdown of a chain of resistors and reed contacts, placed inside the guiding rod, by a magnetic float. The only moving element is the float that moves, for buoyancy, along the measuring rod.
This ensures a high degree of reliability.

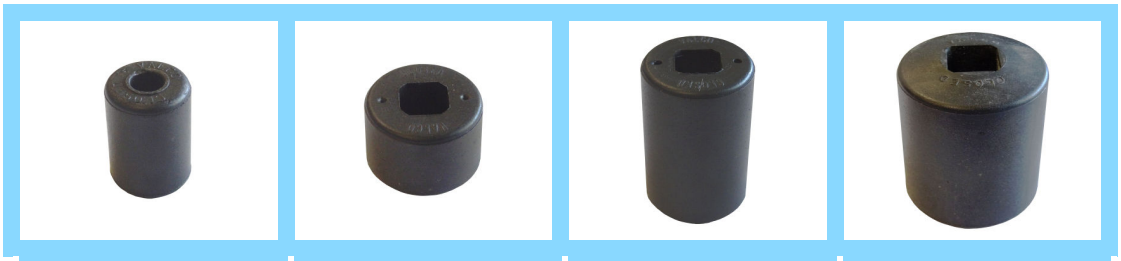
- **Brass – Spansil**

- Measuring resolution 5 – 10 – 20 mm.
- Potentiometric signal output **(LC)**.
- 4-20mA analog output **(LCT)**.
- 0-5 / 0-10V analog output **(LCTV)**.
- (0)4-20mA analog output with digital display **(LCO)**.
- Up to 6m length.
- Maximum working pressure 20 Bar
- Operating ambient temperature -30/+55°C UR 90%.
- Standard working temperature up to 105°C.
  Executions up to 120°C on request.
- Minimum degree of protection IP65.

- Built-in temperature sensors, on request.
  PT – PTC – NTC.

- ATEX Executions (See Linear ATEX E – Linear ATEX I series)

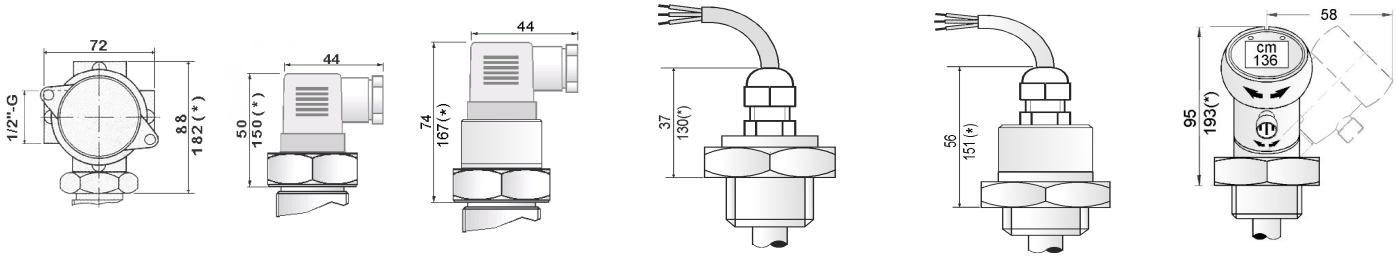
FLOATS Tab.1



	B28 Ø20x28	**B20** Ø30x20	**B45** Ø30x45	**B44** Ø44x50
Material	Spansil – Butadiene - Acrylonitrile Copolymer			
Specific gravity	0,4	0,4	0,35	0,45
Measuring resolution - mm	5 - 10	5 - 10	5 – 10 – 20	5 – 10 – 20
Max. bar	20	20	20	20
Max. °C - Class	**L** = 105°C			
On request	**M** = 120°C			

ELECTRICAL OUTPUT Tab.2

W1	**S1**	**S1**	**P1 - P2**	**P1 - P2**	**O1**
IP65 Housing	DIN 43650 IP65 Plug	DIN 43650 IP65 Plug	P1 Brass cable-gland IP68 P2 Polyamide cable-gland IP67	P1 Brass cable-gland IP68 P2 Polyamide cable-gland IP67	OMNI electric head



LC – LCT - LCTV	**LC**	**LCT - LCTV**	**LC**	**LCT - LCTV**	**LCO**

With heatsink – see dimension (*) **LCT – LCTV – LCO = Temperature class M**

We reserve the right to change the data without notice

BE#176/1-05/2012

PROCESS CONNECTIONS Tab.3

LC type P1–P2 output = Installation from inside		Float type	LC – LCT – LCTV – LCO type = Installation from outside						
10	15		20	25	32	40	50	FOHX	DN65
3/8"	½"		¾"	1"	1-1/4"	1-1/2"	2"	Flange	Flange
All type of floats All type of thread		B28	G-C-N	G-C-N	-	-	-	●	-
		B20	-	G	G-C-N	-	-	●	-
		B44	-	-	-	G	G-C-N	-	●
		B45	-	G	G-C-N	G-C-N	-	●	-

Male thread

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

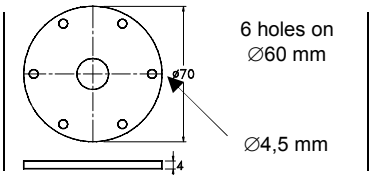
Available materials

O	S
Brass	AISI-316 On request

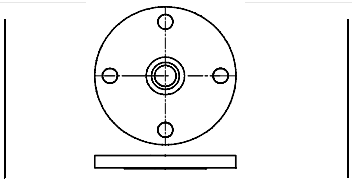
DN = Available materials

C	S
Steel	AISI-316 On request

FLANGES Dimensions in mm.

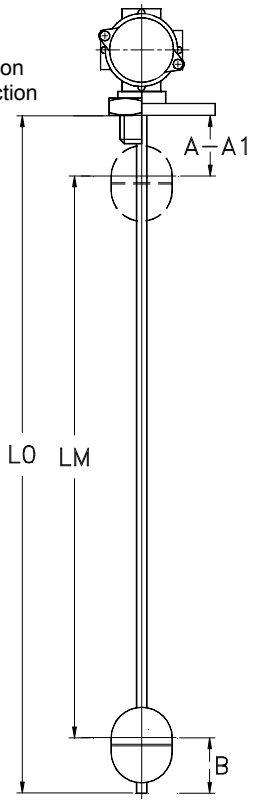


FOHX

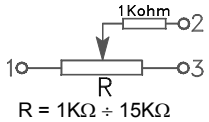
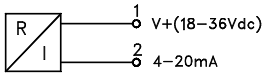
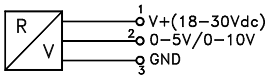
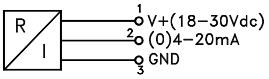


DN = UNI – DIN – ANSI Flanges

A Flanged connection
A1 Threaded connection



WIRING

POTENTIOMETRIC OUTPUT	4-20 mA OUTPUT	0-5 / 0-10 V OUTPUT	4-20 mA OUTPUT WITH DIGITAL DISPLAY
			
R = 1KΩ ÷ 15KΩ Depending on LM	Max. load 500 Ω Power supply 18 ÷ 36 Vdc		
LC	LCT	LCTV	LCO

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.

	B28	B20	B44	B45
A	15	10	25	25
A1	30	25	45	40
B	20	15	30	30

Damping tube On request	–	– L Aluminium	– O Brass

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 at 25°C ≤ 500 Ω	Resistance at 25°C 2-5-10-50-100 KΩ
Class B – (Class A on request)	Temperature 60°C ÷ 120°C	Precision ± 5% / ± 3% (on request)

NOMENCLATURE

LC	B45	10	1300 / 1380	O	– L	25	G	O	W1	L	1,5 M		
●													Type: **LC – LCT – LCTV - LCO**
	●											Tab.1	Float
		●										Tab.1	Measuring resolution (mm).
			●									Tab.4	Measuring length LM / Total length L0 (mm).
				●								Tab.3	Rod material.
					●							Tab.4	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 (P1 - P2) 1,5m / 3m, other lengths on request.