

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.

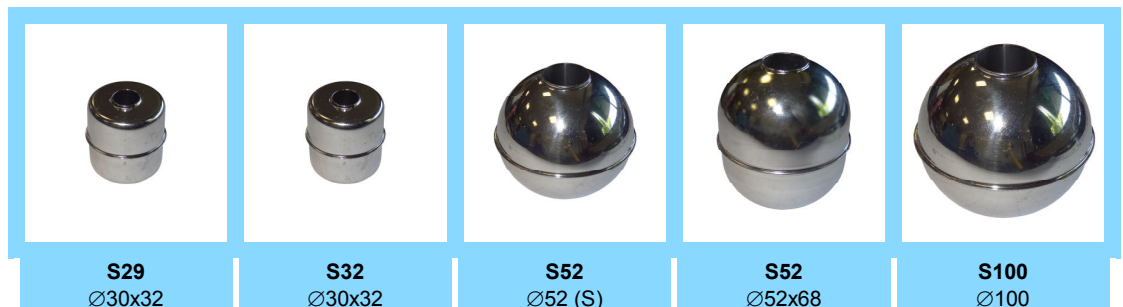
- **Stainless steel – AISI 316**
- Measuring resolution 5 – 10 – 20 mm.
- Potentiometric signal output (**LC**).
- 4-20mA analog output (**LCT**).
- 0-5 / 0-10V analog output (**LCTV**).
- (0)4-20mA analog output with digital display (**LCO**).
- Up to 6m length.
- Maximum working pressure 50 Bar
- Operating ambient temperature -30/+55°C UR 90%.
- Standard working temperature up to 105°C.
Executions up to 150°C on request.
- Minimum degree of protection IP65.
- Built-in temperature sensors, on request.
PT – PTC – NTC.
- ATEX constructions (See Linear ATEX E – Linear ATEX I series)



See MULTISIGNAL

FLOATS

Tab.1

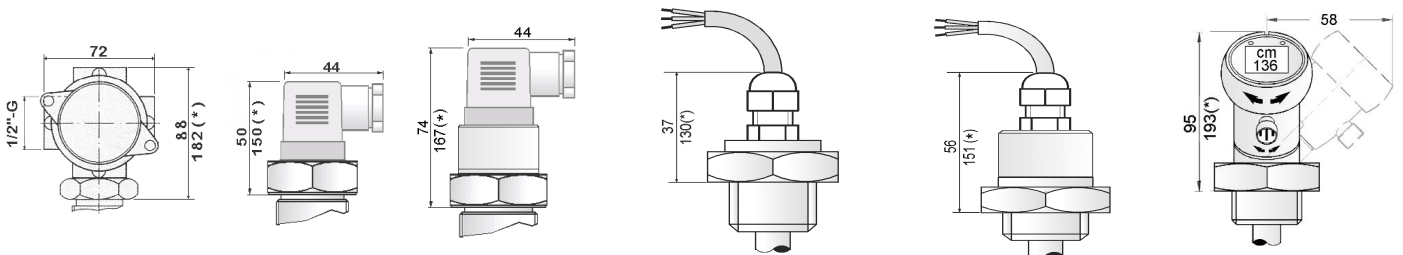


Material	Stainless steel – AISI 316				
Specific gravity	0,75	0,55	0,7	0,65	0,6
Measuring resolution - mm	5	5	5	10 – 20	10 – 20
Max. bar	30	10	50	40	15
Max. °C - Class	L = 105°C				
On request	R = 150°C				

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 R			

We reserve the right to change the data without notice

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PROCESS CONNECTIONS

Tab.3

LC type P1-P2 output = Installation from inside		Float type	LC - LCT - LCTV - LCO type = Installation from outside						
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	G	G-C-N	G-C-N	-	•	-	-
		S32	G	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

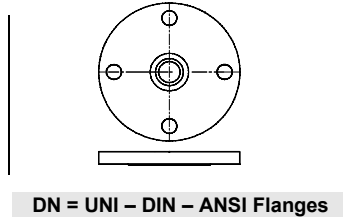
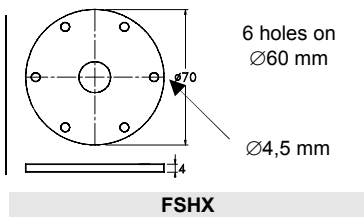
Available materials

S
AISI-316

DN = Available materials

S	C
AISI-316	Steel On request

FLANGES Dimensions in mm.

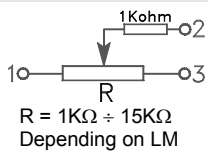


A Flanged connection
A1 Threaded connection

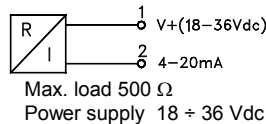


WIRING

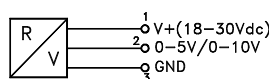
POTENTIOMETRIC OUTPUT



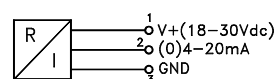
4-20 mA OUTPUT



0-5 / 0-10 V OUTPUT



4-20 mA OUTPUT WITH DIGITAL DISPLAY



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.

	S29	S32	S52 (S)	S52	S100
A	15	15	25	35	50
A1	35	35	45	55	-
B	25	25	30	40	60

Damping tube
On request

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— 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 at 25°C $\leq 500 \Omega$	Resistance at 25°C 2-5-10-50-100 K Ω
Class B - (Class A on request)	Temperature 60°C \div 150°C	Precision $\pm 5\%$ / $\pm 3\%$ (on request)

NOMENCLATURE

LC S52 10 1300 / 1400 S -S 50 G S W1 L 1,5 M

LC	S52	10	1300 / 1400	S	-S	50	G	S	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.