

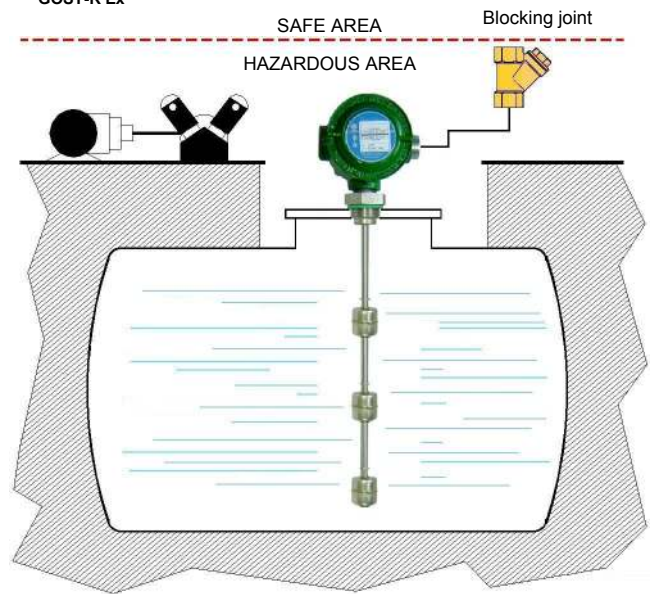
APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 94/9/EC - ATEX



These instruments, explosion-proof certified **CESI 03 ATEX 272 Ext.2 II 1/2G Exd IIC T5/T6 Ga/Gb**, are used to control the level of liquids or fuel in tanks, both underground and outdoors, installed in hazardous areas where flammable products are treated.

GENERAL CHARACTERISTICS

- **Stainless steel – AISI 316**
- Up to 6 switch points.
- Up to 6 m length.
- Maximum working pressure 50 bar depending on used float.
- Standard working temperature up to 100°C.
- Executions up to 160°C on request.
- Operating ambient temperature
T6 -40/+40°C **T5** -40/+60°C
- Minimum degree of protection IP67.
- Built-in temperature sensors, on request.
PT – PTC – NTC – Thermostat (Thermoprotector).



FLOATS

Tab.1



Material	Stainless steel – AISI 316									
Specific gravity	0,75		0,55		0,65		0,7		0,6	
Contact type	3	6D	3	6D	4	6	4	6	6	
Max N. of contacts	6	4	6	4	6	6	6	6	6	
Max. bar	30		10		10		50		15	
Max. °C - Class	L = 100°C									
On request	R = 160°C									

ELECTRICAL CONTACTS

Tab.2

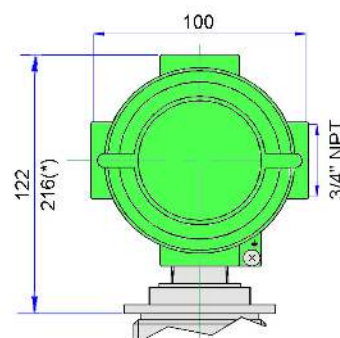
TYPE		POWER		VOLTAGE		CURRENT	
		VA	W	AC	DC	AC	DC
SPST	3	70	50	300	350	0,5	0,7
SPST	4	80	80	250	250	1,3	1,3
SPDT	6	60	60	230	230	1	1
SPDT	6D	20	20	150	150	0,5	0,5

ELECTRICAL OUTPUT

Tab.3

E1	IP67 Housing Max. 18 terminals
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Heatsink - see dimension (*)	Temperature class R
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PROCESS CONNECTIONS

Tab.4

Float type	Installation from outside – available thread and flanges							
	25	32	40	50	FSHX	DN50	DN65	DN125
	1"	1¼"	1½"	2"	Flange	Flange	Flange	Flange
S29	G	G-C-N	-	/	•	-	-	-
S32	G	G-C-N	-	/	•	-	-	-
S41	/	/	G-C-N	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

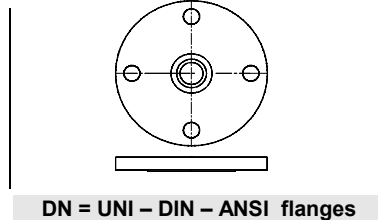
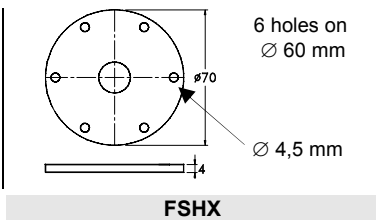
S	T
AISI-316	AISI-304 On request

DN = Available materials

C	S
Steel	AISI-316

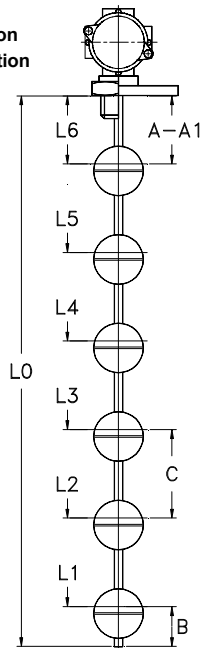
FLANGES

Dimensions in mm.



DN = UNI – DIN – ANSI flanges

A Flanged connection
A1 Threaded connection



WIRING

Tab.5

I	Independent	Separately wired contacts	1	NO	Contacts status in no level conditions
C	Common	Common wired contacts	2	NC	
S	Custom	Contacts wired on request	3	SPDT	

SWITCH POINTS

- Minimum value in mm.

Tab.6

The switch points L1 + L6 are measured from the stop of the fitting or flange connection. General tolerances on switch points ± 3 mm.

	Minimum distance in mm.									
	S29		S32		S41		S52		S100	
A	20	20	30	35	60					
A1	40	40	50	55	-					
B	25	25	35	40	70					
C	45	45	65	75	125					
Contact type	3	6D	3	6D	4	6	4	6	6	
Max. N. contacts	6	4	6	4	6	6	6	6	6	

OPTION – Built-in temperature sensor

On request, it is possible to install a temperature sensor located at the bottom of the rod inside the instrument.

PT100 – PT1000	PTC	NTC	TRP (Thermoprotector)
EN 60751 – IEC 751	Resistance at 25°C ≤ 500 Ω	Resistance at 25°C 2-5-10-50-100 KΩ	70°C + 160°C - 10°C step
Class B – A (on request)	Temperature 60°C + 160°C	Precision ± 5% / ± 3% (on request)	Precision ± 5% Differential 40°C

NOMENCLATURE

M2	S41	4	1300	S	50	G	S	E1	L	I22	L1+L6	
•												Number of contacts S1 / M2+M6
	•											Tab.1 Float
		•										Tab.2 Electrical contact
			•									- Total length = L0 in mm. (See drawing)
				•								- Stainless steel rod material
					•							Tab.4 Process connection dimension
						•						Tab.4 Process connection thread
							•					Tab.4 Process connection material
								•				Tab.3 Electrical output
									•			Tab.1 Temperature class
										•		Tab.5 Wiring and contact status
											•	Tab.6 Switch points (mm)

All level controls Exd certified must be connected by interposing the appropriate blocking joints according to the European Standard EN 50018.