

APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 2014/34/EU - ATEX

These instruments, explosion-proof certified **CESI 03 ATEX 272 Ext.2 II 1/2G Exdb IIB IIC T6/T5 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.

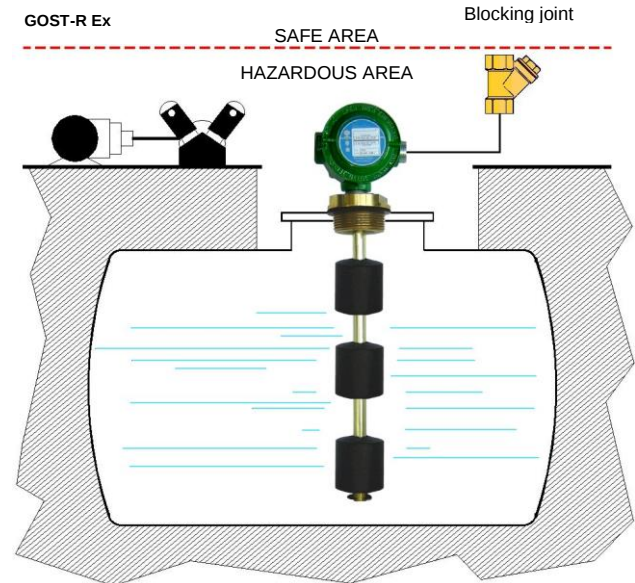
GENERAL CHARACTERISTICS

- **Brass – Spansil – Stainless steel rod**
- Up to 6 switch points.
- Up to 6 m length.
- Maximum working pressure 20 bar depending on used float.
- Standard working temperature up to 100°C.
- Executions up to 120°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).



Exd

GOST-R Ex



FLOATS

Tab.1



Material	Spansil – Butadiene - Acrylonitrile Copolymer												
Specific gravity	0,59	0,44		0,4		0,45		0,4		0,35		0,45	
Contact type	3	3	6D	3	6D	3	3	6D	4	6	4	6	
Max N. contacts	1	4	3	4	3	6	6	6	4	3	6		
Max. bar	10	20											
Max. °C - Class	L = 100°C												
On request	M = 120°C												

ELECTRICAL CONTACTS

Tab.2

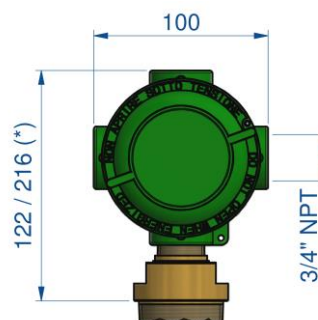
TYPE		POWER		VOLTAGE		CURRENT	
		VA	W	AC	DC	AC	DC
SPST	3	70	50	300	350	0,5	0,7
SPST	4	80	80	250	250	1,3	1,3
SPDT	6	60	60	230	230	1	1
SPDT	6D	20	20	150	150	0,5	0,5

ELECTRICAL OUTPUT

Tab.3

E1	IP66/67 Housing – Aluminum - Epoxy painted Max. 18 terminals
E3	IP66/67 Housing – AISI 316 St. steel Max. 18 terminals

Heatsink - see dimension (*) Temperature class **M**



PROCESS CONNECTION

Tab.4

Float type	Installation from outside – available thread and flanges							
	20 3/4"	25 1"	32 1 1/4"	40 1 1/2"	50 2"	FOHX Flange	DN50 Flange	DN65 Flange
B13	G-C-N	-	-	-	-	-	-	-
B22	G-C-N	G-C-N	-	-	-	•	-	-
B28	G-C-N	G-C-N	-	-	-	•	-	-
B15	-	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

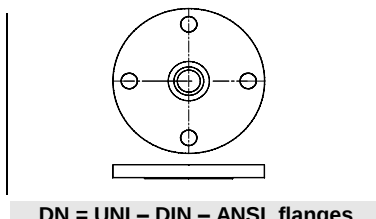
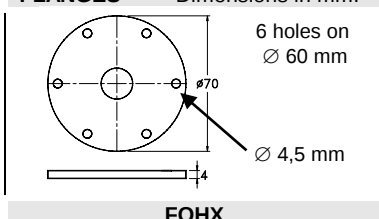
Available materials

O	S
Brass	AISI-316 On request

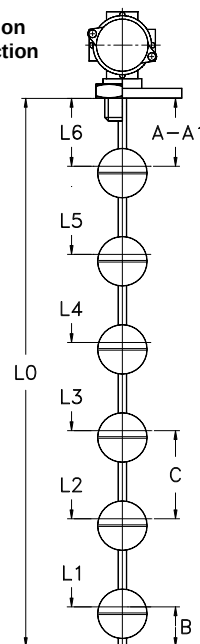
DN = Available materials

C	S
Steel	AISI-316 On request

FLANGES Dimensions in mm.



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

Switch points L1 ÷ L6 are measured from the stop of the fitting or flange connection. Tolerances on switch points ± 3 mm.

	Minimum distance in mm.													
	B13		B22		B28		B15		B20		B45		B44	
A	20		20		20		15		15		35		35	
A1	35		35		35		30		30		50		55	
B	25		25		25		20		20		40		40	
C	---		45		45		35		40		75		75	
Contact type	3		3	6D	3	6D	3		3	6D	4	6	4	6
Max. N. contacts	1		4	3	4	3	6		6		4	3	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 ÷ 120°C - 10°C step
Class B – A (on request)	Temperature 60°C ÷ 120°C	Precision ± 5% / ± 3% (on request)	Precision ± 5% Differential 40°C

NOMENCLATURE

M2	B45	4	1300	S	25	G	O	E1	L	I22	L1÷L6
•											
	•										
		•									
			•								
				•							
					•						
						•					
							•				
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									•		
										•	
											•

	Number of contacts S1 / M2÷M6
Tab.1	Float
Tab.2	Electrical contact
-	Total length = L0 in mm. (See drawing)
Tab.4	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)

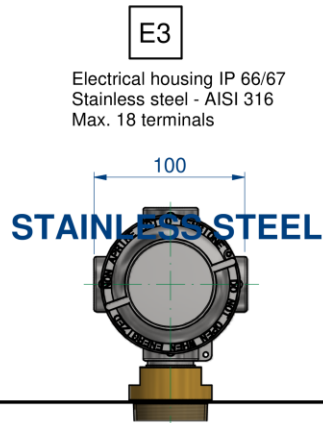
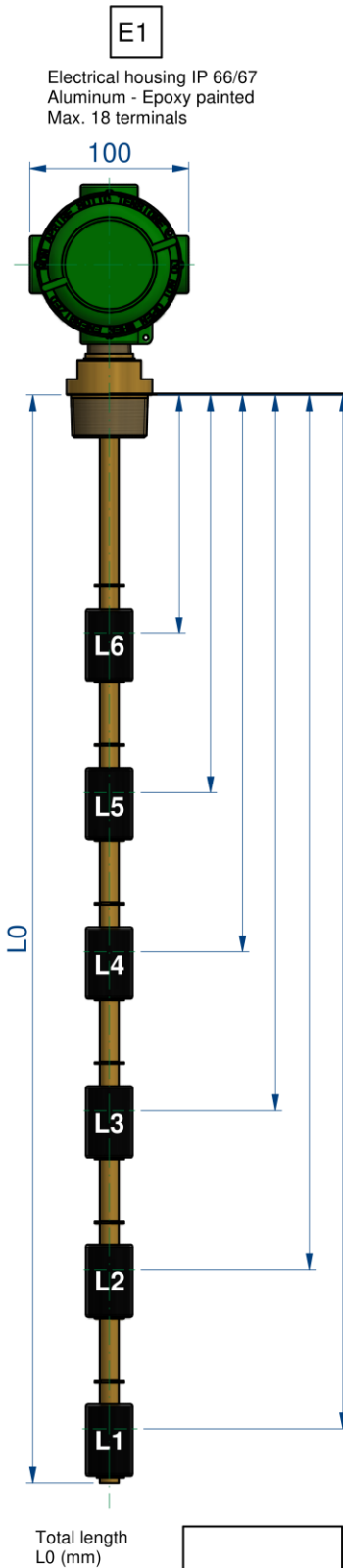
All level controls Exd certified must be connected by interposing the appropriate blocking joints according to the European Standard EN 50018

We reserve the right to change the data without notice

BE#166/3-10/2017

Request form

External mounting



Liquid under control:

Specific gravity:

Maximum pressure:

Maximum temperature:

Approvals:



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Process connection:

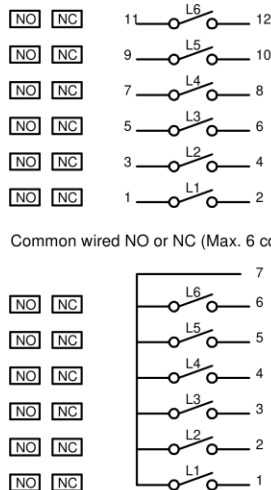
☐ Threaded: ☐ Flanged:

Material:

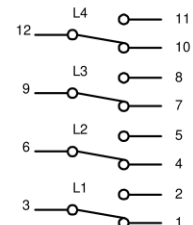
☐ Brass ☐ AISI-316 ☐ PVC ☐ PP ☐ PVDF

Wirings:

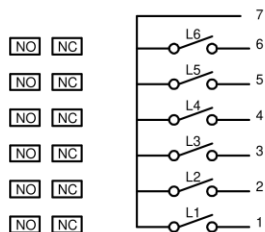
☐ Independent contacts NO or NC (Max. 6 contacts)



☐ Independent SPDT contacts (Max. 4 contacts)



☐ Common wired NO or NC (Max. 6 contacts)



☐ Common wired SPDT contacts (Max. 5 contacts)

