

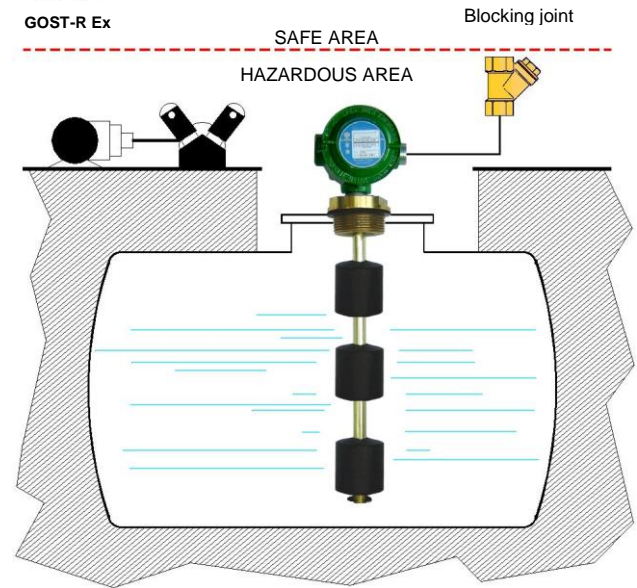
### APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 2014/34/EU - ATEX



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).



### FLOATS

Tab.1



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

### ELECTRICAL CONTACTS

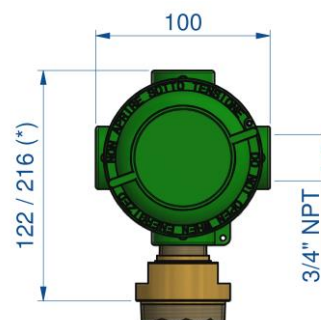
Tab.2

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

### ELECTRICAL OUTPUT

Tab.3

<b>E1</b>	IP66/67 Housing – Aluminum - Epoxy painted Max. 18 terminals
<b>E3</b>	IP66/67 Housing – AISI 316 St. steel Max. 18 terminals
<b>Heatsink</b> - see dimension (*)	Temperature class <b>M</b>



### 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

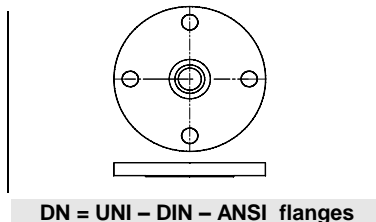
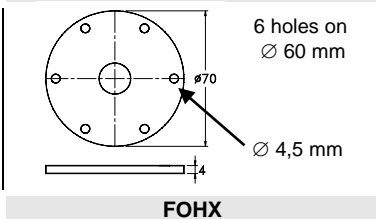
O	S
Brass	AISI-316 On request

### DN = Available materials

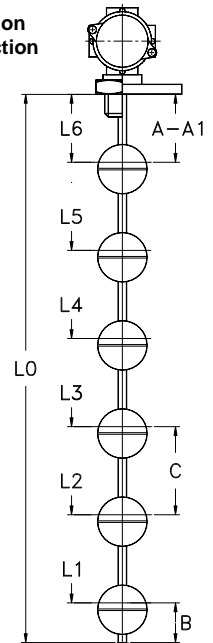
C	S
Steel	AISI-316 On request

### 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	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	
•												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

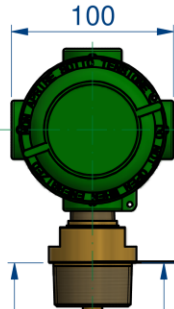


## Request form

### External mounting

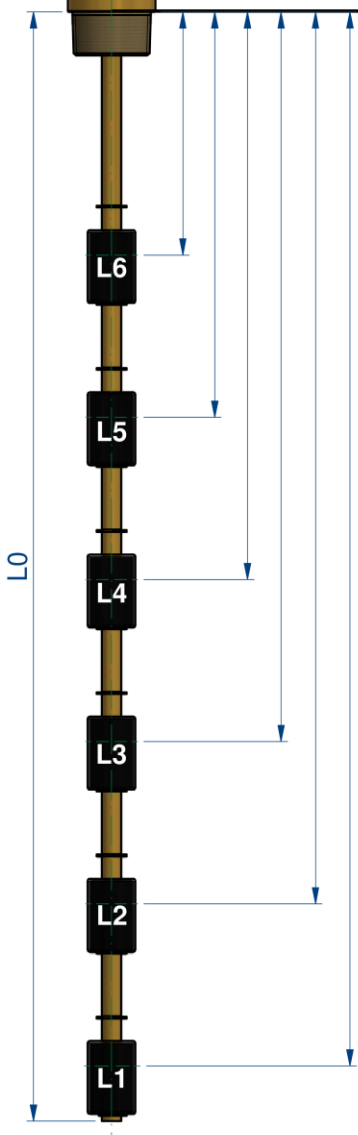
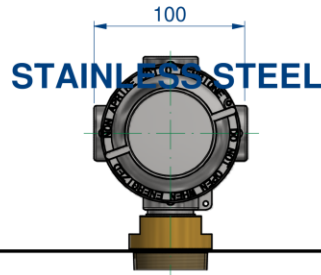
E1

Electrical housing IP 66/67  
Aluminum - Epoxy painted  
Max. 18 terminals



E3

Electrical housing IP 66/67  
Stainless steel - AISI 316  
Max. 18 terminals



Total length L0 (mm)

Liquid under control: .....

Specific gravity: .....

Maximum pressure: .....

Maximum temperature: .....

Approvals:

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)