

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

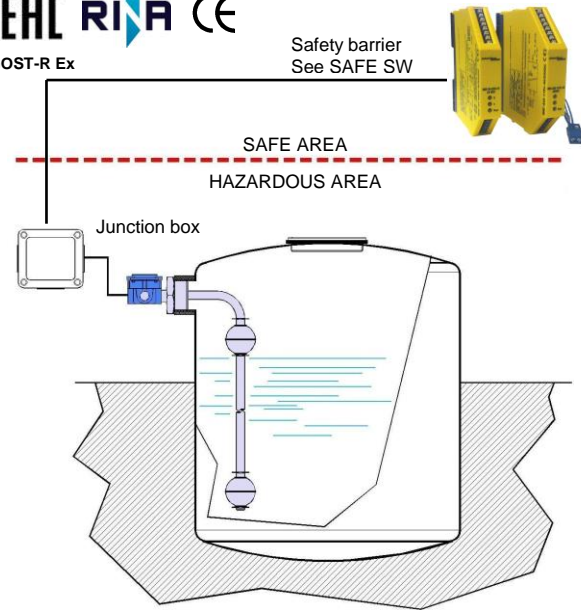


These instruments, intrinsically safe certified:

**CESI 03 ATEX 265 Ext.2 II 1G Exia IIC T4/T5/T6 Ga,**  
**CESI 03 ATEX 265 Ext.2 II 1/2G Exia IIC T4/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

- **Acciaio inox – AISI 316**
- Up to 4 switch points.
- Maximum working pressure 50 bar depending on used float.
- Standard working temperature up to 100°C.
- Executions up to 150°C on request.
- Operating ambient temperature  
 -40/+40°C = T6, -40/+55°C = T5, -40/+80°C = T4
- Minimum degree of protection IP65.



### FLOATS

Tab.1



Material	Stainless steel – AISI 316							
Specific gravity	0,75		0,55		0,65		0,7	
Contact type	3	7D	3	7D	4	7	4	7
Max N. of contacts	4	4	4	4	4	4	4	4
Max. bar	30		10		10		50	
Max. °C - Class	L = 100°C							
On request	N = 130°C - R = 160°C							

### ELECTRICAL CONTACTS

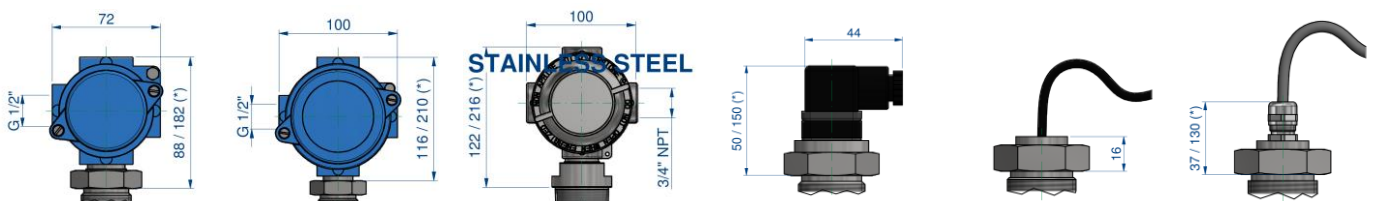
Tab.2

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	7	60	60	230	230	1	1
SPDT	7D	20	20	150	150	0,5	0,5

### ELECTRICAL OUTPUT

Tab.3

I1	I2	I3	IS1	IC1 - IC2	IP1 - IP2
IP65 housing (2G)	IP65 housing (2G)	IP66 housing (1G)	DIN 43650 IP65 (1G)	Cable IP65 (1G)	Cable-gland (1G)
5 terminals	18 terminals	18 terminals	DIN43650 29x29	IC1 Cable L = 1,5m IC2 Cable L = 3,0m	IP1 Brass IP68 IP2 Polyamide IP67



**With heatsink - see dimension (\*)** | Temperature class **N - R = T6 - T5** | Temperature class **N = T4** heatsink not needed

## PROCESS CONNECTIONS

Tab.4

Installation from inside IC- IP output				Float type	Installation from outside – available thread and flanges						
06 1/8"	08 1/4"	10 3/8"	15 1/2"		25 1"	32 1 1/4"	40 1 1/2"	50 2"	FSHX Flange	FSPX Flange	DN Flange
All type of floats All type of thread				S29	G	G-C-N	-	-	•	•	•
				S32	G	G-C-N	-	-	•	•	•
				S41	-	-	G-C-N	G-C-N	-	-	•
				S52	-	-	-	G-C-N	-	-	•

### Male thread

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

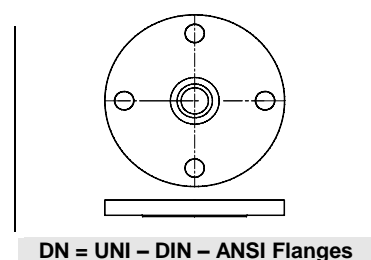
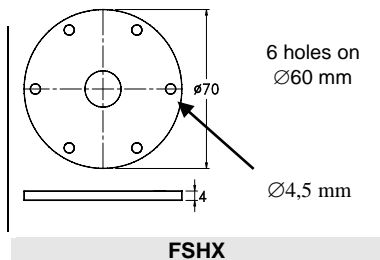
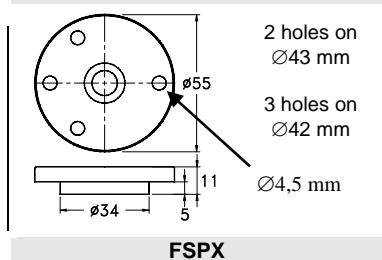
### Available materials

S	T
AISI-316	AISI-304 On request

### DN - Available materials

C	S
Steel	AISI-316

### FLANGES Dimensions in mm.



## SAFETY BARRIERS

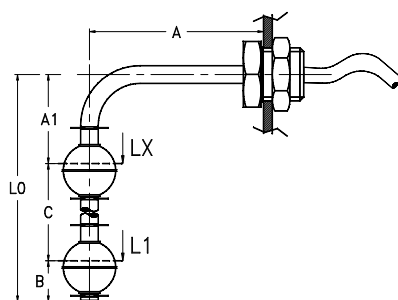
All Exia level controls must be electrically connected to the active or passive barriers according to the European Standard EN 50020. See technical bulletin SAFE SW.

## 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 (*)	

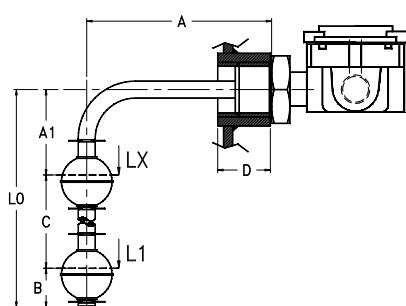
(\*) Connect to barrier input just as NO or NC



## SWITCH POINTS - minimum value in mm. Tab.6

The switch points L1 ÷ L4 are measured from the axis of the fitting or flange connection. General tolerances on switch points ± 3 mm.

	Dimensions in mm.							
	S29		S32		S41		S52	
A min.	60	60	80	80				
A1 min.	60	60	80	80				
B	25	25	35	40				
C	45	45	65	75				
D max ▶	24	24	36	36				
Contact type	3	7D	3	7D	4	7	4	7
Max. N. of contacts	4		4		4		4	



## NOMENCLATURE

L2	S41	4	0350/0100	S	50	G	S	I1	L	I22	L1÷L4	
•												Number of contacts L1÷L4
	•											Tab.1 Float
		•										Tab.2 Electrical contact
			•									- Total length = L0 mm / Length A 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)