

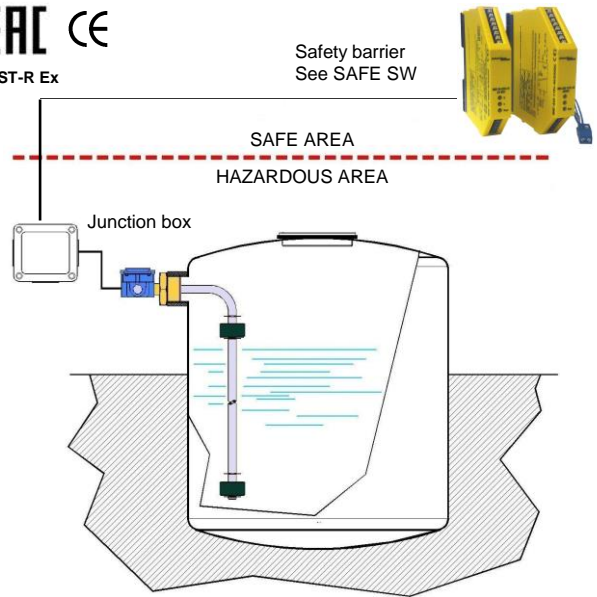
### APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 2014/34/EU - ATEX

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

- Brass – Spansil – Stainless steel rod
- Up to 4 switch points.
- Maximum working pressure 20 bar.
- Standard working temperature up to 100°C.
- Executions up to 120°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	Spansil – Butadiene - Acrylonitrile Copolymer												
Specific gravity	0,59	0,44		0,4		0,45		0,4		0,35		0,45	
Contact type	3	3	7D	3	7D	3	3	7D	4	7	4	7	
Max N. of contacts	1	1		1		3		4		4		4	
Max. bar	10						20						
Max. °C - Class							L = 100°C						
On request							M = 120°C						

### ELECTRICAL CONTACTS

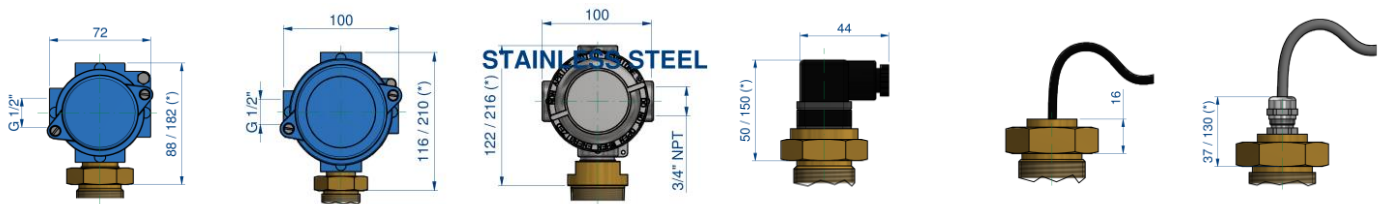
Tab.2

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	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)	IP66/67 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 **M = T5 - T6**      Note: Temperature class **M = 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"		15 1/2"	20 3/4"	25 1"	32 1 1/4"	40 1 1/2"	50 2"	FOHX Flange	FOPX Flange	DN Flange		
All type of floats All type of thread				B13	G-C-N	-	-	-	-	-	-	-	-		
				B15	-	-	G-C-N	-	-	-	-	•	•	-	
				B20	-	-	G	G-C-N	-	-	-	-	•	•	•
				B28	-	G-C-N	G-C-N	-	-	-	-	-	-	-	-
				B44	-	-	-	-	G	G-C-N	-	-	-	-	•
				B45	-	-	G	G-C-N	G-C-N	-	-	-	•	•	•

### Male thread

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

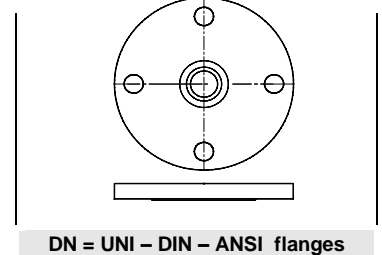
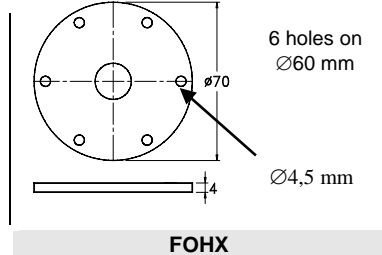
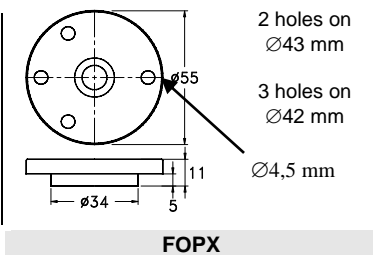
### Available materials

O	S
Brass	AISI-316 On request

### DN = Available materials

C	S
Steel	AISI-316 On request

### FLANGES Dimensions in mm.



## SAFETY BARRIERS

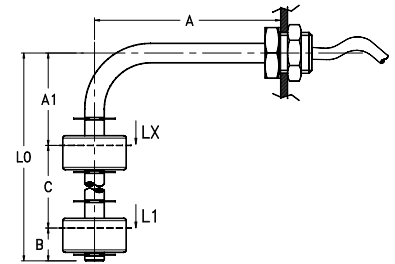
All Exia level controls must be electrically connected to the active or passive barriers according to the European Standard EN 50020. See technical bulletin SAFE SW.

## 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 (*)	

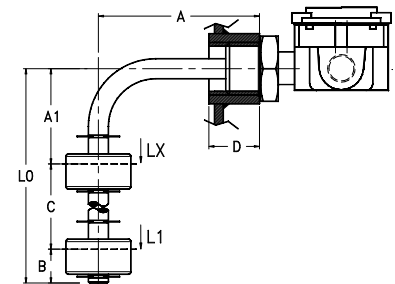
(\*) Connect to barrier input just as NO or NC



## 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.

	Minimum distance in mm.							
	B13	B15	B20	B22	B28	B44	B45	B45
A min.	60	55	60	60	60	80	60	60
A1 min.	60	55	60	60	60	80	70	75
B	25	20	20	25	25	40	35	40
C	-	35	40	-	-	75	65	75
D max. ▶	18	25	24	22	24	36	24	24
Contact type	3	3	3-7D	3-7D	3-7D	4-7	3	4-7
Max. N. contacts	1	3	4	1	1	4	4	4



## NOMENCLATURE

L2	B45	4	0350/0100	S	25	G	O	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)