

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

These instruments, intrinsically safe certified:

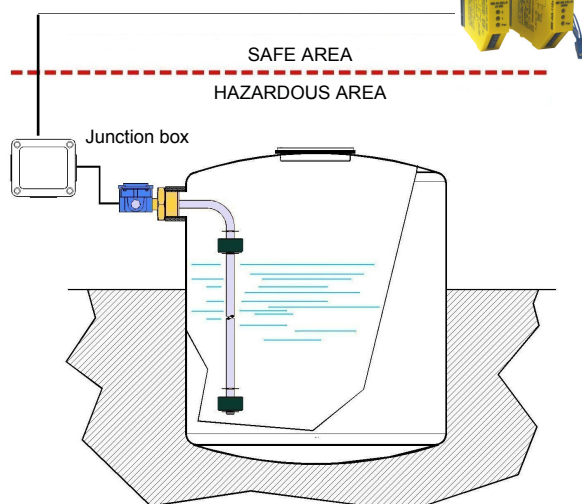
CESI 03 ATEX 265 Ext.2 II 1G Exia IIC T4/T5/T6 Ga,
CESI 03 ATEX 265 Ext.2 II 1/2G Exia IIC T4/T5/T6 Ga/Gb,
 are used to control the level of liquids or fuel in tanks, both underground and outdoors, installed in hazardous areas where flammable products are treated.

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
 $-40/+40^{\circ}\text{C} = \text{T6}$, $-40/+55^{\circ}\text{C} = \text{T5}$, $-40/+80^{\circ}\text{C} = \text{T4}$
- Minimum degree of protection IP65.



Safety barrier
See SAFE SW



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

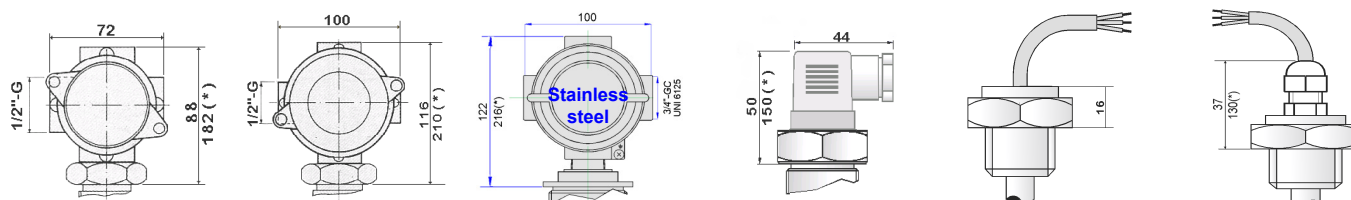
Tab.2

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 housing (1G)	DIN 43650 IP65 (1G)	Cable IP65 (1G)	Cable-gland (1G)
5 terminals	18 terminals	18 terminals	DIN 43650 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**

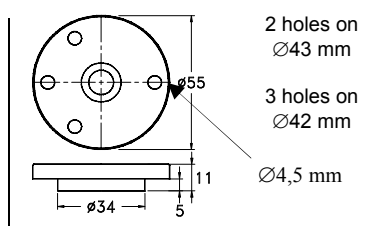
Note: Temperature class **M = T4** heatsink not needed

PROCESS CONNECTIONS

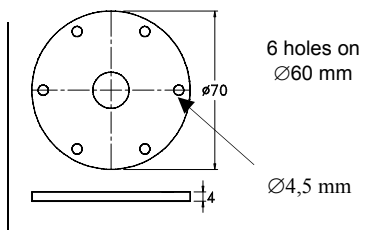
Tab.4

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				Available materials						DN = Available materials				
G		C		N		O		S		C		S		
Parallel UNI 228/1		Conical UNI 7/1		Conical NPT		Brass		AISI-316 On request		Steel		AISI-316 On request		

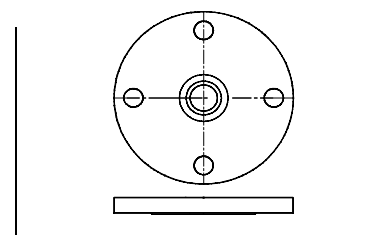
FLANGES Dimensions in mm.



FOPX



FOHX



DN = UNI – DIN – ANSI flanges

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

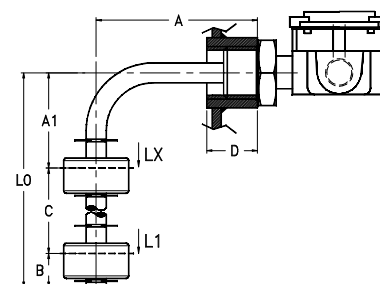
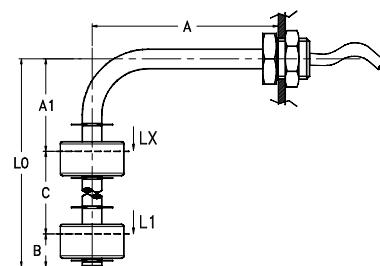
I	Independent	Separately wired contacts	1	NO	Contacts status in no level conditions
C	Common	Common wired contacts	2	NC	
S	Custom	Contacts wired on request	3	SPDT (*)	

(*) 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	
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	



NOMENCLATURE

L2	B45	4	0350/0100	S	25	G	O	I1	L	I22	L1+L4
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	•										
		•									
			•								
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						•					
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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)