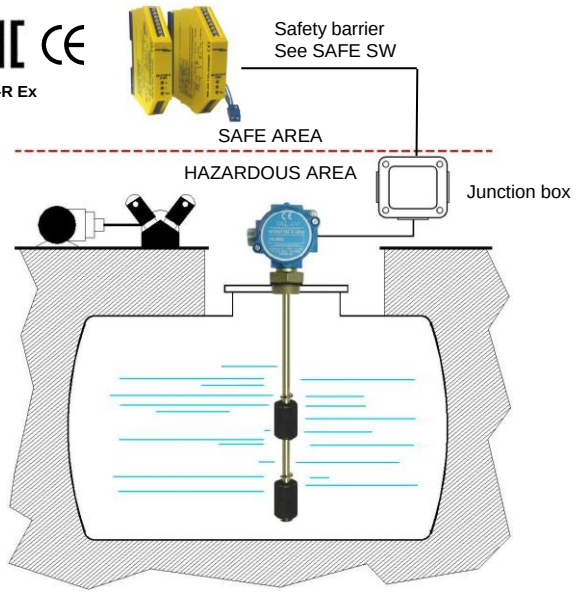
APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 2014/34/EU - ATEX

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.

Exia GOST-R Ex



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
  -40/+40°C = T6, -40/+55°C = T5, -40/+80°C = T4
- Minimum degree of protection IP65.

FLOATS Tab.1

B13 Ø13,5x30	**B22** Ø20x22	**B28** Ø20x28	**B15** Ø25x15	**B20** Ø30x20	**B45** Ø30x45	**B44** Ø44x50

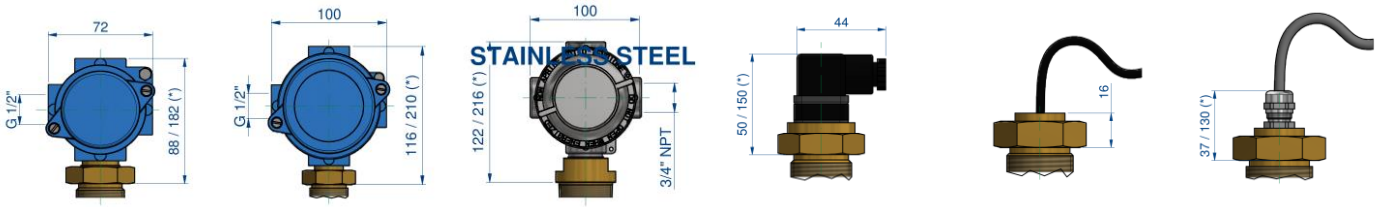
Material	Spansil – Butadiene - Acrylonitrile Copolymer													
Specific gravity	0,59	0,44		0,4		0,45	0,4		0,35			0,45		
Contact type	**3**	**3**	**7D**	**3**	**7D**	**3**	**3**	**7D**	**3**	**4**	**7**	**4**	**7**	
Max N. contacts	1	4	3	4	3	6	6		6	4	3	6		
Max. bar	10	20												
Max. °C - Class	**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	**7**	60	60	230	230	1	1
SPDT	**7D**	20	20	150	150	0,5	0,5

USCITA ELETTRICA Tab.3

I1 IP65 housing (2G)	**I2** IP65 housing (2G)	**I3** IP66/67 housing (1G)	**IS1** DIN43650 plug IP65 (1G)	**IC1 - IC2** Cable IP65 (1G)	**IP1 - IP2** 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	08	10	15		15	20	25	32	40	50	FOHX	FOPX	DN
1/8"	1/4"	3/8"	1/2"		½"	¾"	1"	1¼"	1½"	2"	Flange	Flange	Flange
All type of floats All type of thread				B13	G-C-N	-	-	-	-	-	-	-	-
				B15	-	-	G-C-N	-	-	-	●	●	-
				B20	-	-	G	G-C-N	-	-	●	●	●
				B22	-	G-C-N	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

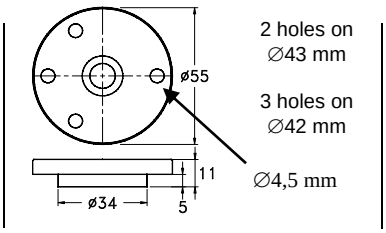
G	C	N
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT

Available materials

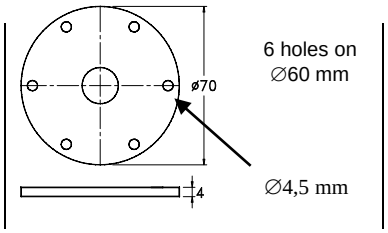
O	S
Brass	AISI-316 On request

DN = Available materials

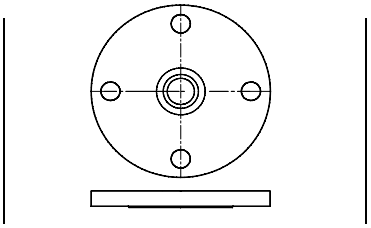
C	S
Steel	AISI-316 On request



FOPX



FOHX

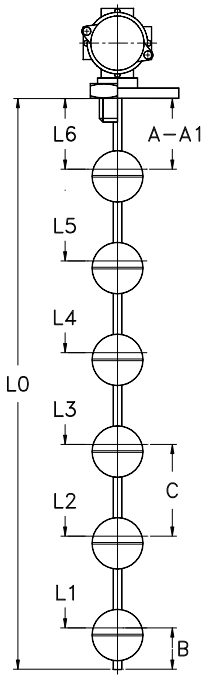


DN = UNI – DIN – ANSI flanges

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.

A Flanged connection
A1 Threaded connection



WIRING Tab.5

I	**Independent**	Separately wired contacts
C	**Common**	Common wired contacts
S	**Custom**	Contacts wired on request

1	**NO**	Contacts status in no level conditions
2	**NC**	
3	**SPDT (*)**	

(*) Connected to barrier input just as NO or NC

SWITCH POINTS - minimum value in mm. Tab.6

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

	Minimum distance in mm.														
	B13	**B22**		**B28**		**B15**	**B20**		**B45**			**B44**	
A	20	20		20		15	15		30	35		35	
A1	35	35		35		30	30		45	50		55	
B	25	25		25		20	20		35	40		40	
C	---	45		45		35	40		65	75		75	
Contact type	3	3	7D	3	7D	3	3	7D	3	4	7	4	7
Max. N. contacts	**1**	**4**	**3**	**4**	**3**	**6**	**6**		**6**	**4**	**3**	**6**	

NOMENCLATURE

M2	B45	4	1300	S	25	G	O	I1	L	I22	L1÷L6		
●													Number of contacts S1 / M2÷M6
	●											Tab.1	Float
		●										Tab.2	Electrical contact
			●									-	Total length = L0 in mm. (See drawing)
				●								-	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)

MULTIPOINT O - ATEX I

Request form

External mounting | Internal mounting

I1 **I2**
Electrical housing IP 65
W1 max. 5 terminals 70mm
W2 max. 18 terminals 100mm

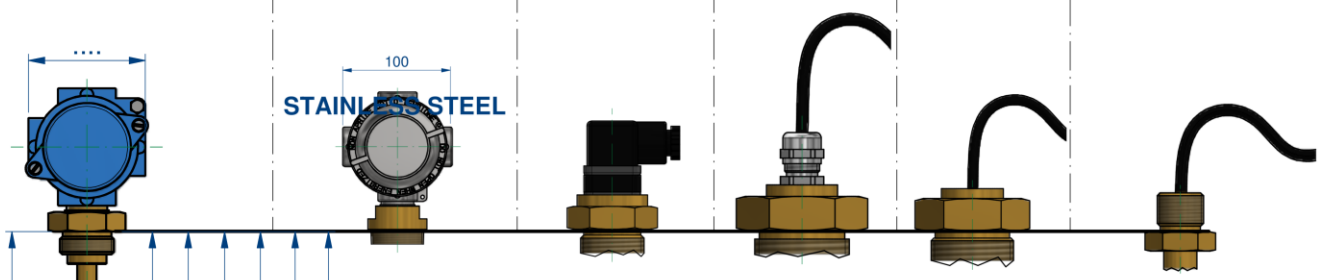
I3
Electrical housing IP 66/67
Stainless steel - AISI 316
Max. 18 terminals

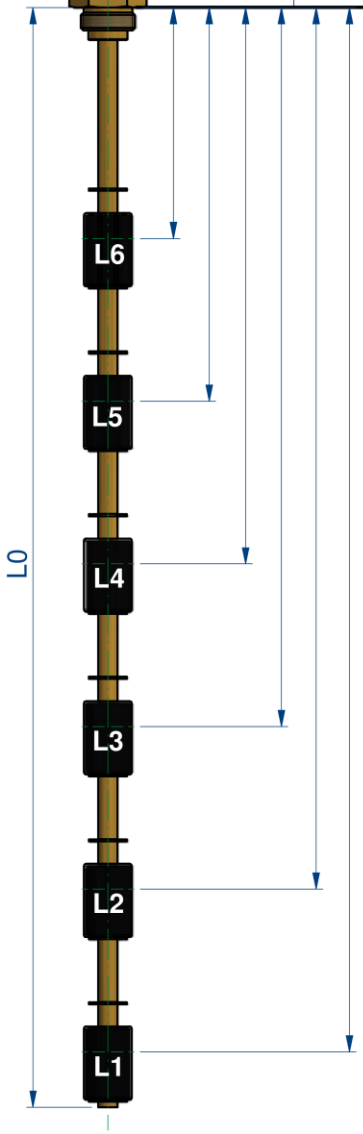
IS1 **IS2**
Plug DIN 43650
29x29 or 15x15
Max 3 terminals

IP1 **IP2**
P1 Cable-gland IP68
P2 Cable-gland IP67
L cable.....mm

IC
Cable L.....mm

IC
Only internal mounting
Cable L.....mm





Total length
L0 (mm) ☐

Liquid under control: .....
Specific gravity: .....
Maximum pressure: .....
Maximum temperature: .....

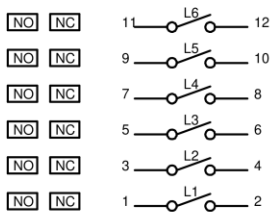
Approvals:
Exia GOST-R Ex

Process connection:
☐ Threaded: ..... ☐ Flanged: .....

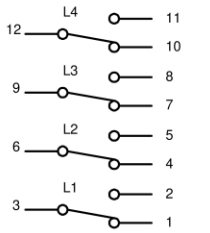
Material:
☐ Brass ☐ AISI-316 ☐ PVC ☐ PP ☐ PVDF

Wirings:

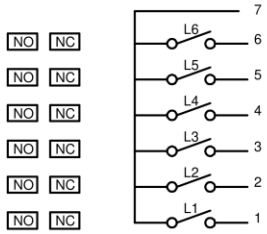
☐ Independent contacts NO or NC (Max. 6 contacts)



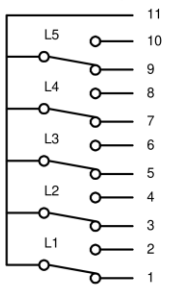
☐ Independent SPDT contacts (Max. 4 contacts)



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



☐ Common wired SPDT contacts (Max. 5 contacts)



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