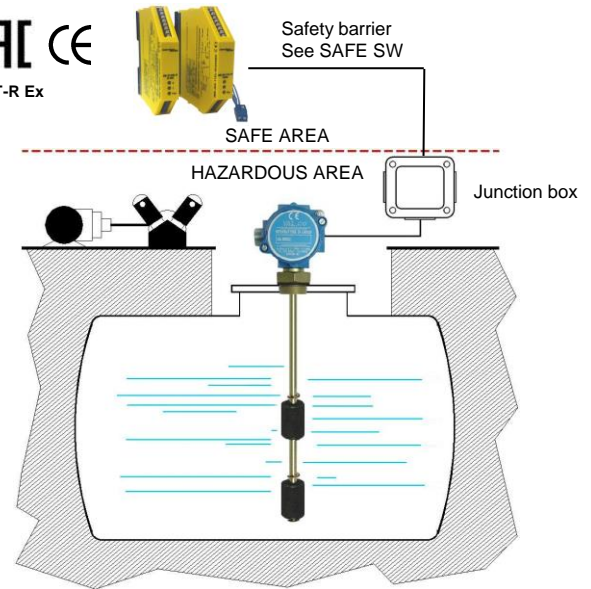


APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 2014/34/EU - ATEX

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 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



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	6	4	3	6	6
Max. bar	10	20											
Max. °C - Class	L = 100°C												
On request	M = 120°C												

ELECTRICAL CONTACTS

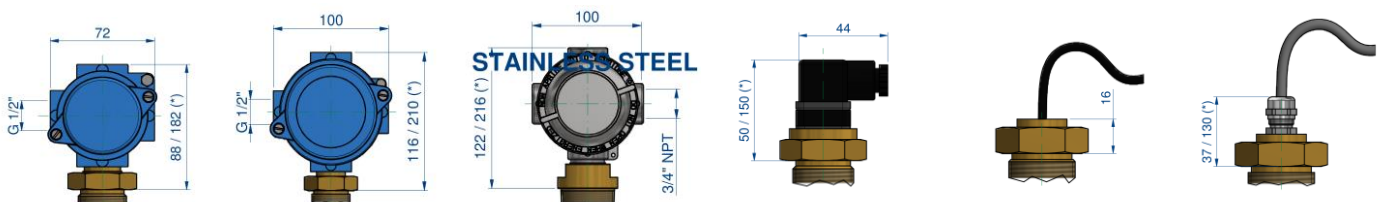
Tab.2

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	I2	I3	IS1	IC1 - IC2	IP1 - IP2
IP65 housing (2G)	IP65 housing (2G)	IP66/67 housing (1G)	DIN43650 plug 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	-	-	-	-	•	•	•
				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

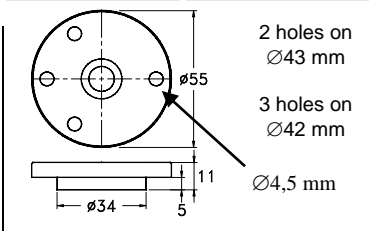
G	C	N
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT

Available materials

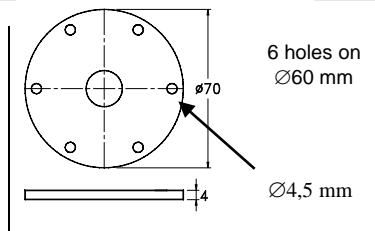
O	S
Brass	AISI-316 On request

DN = Available materials

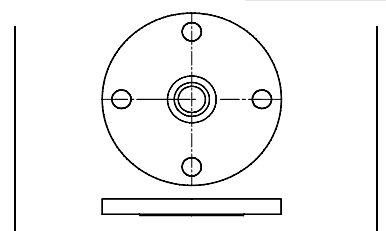
C	S
Steel	AISI-316 On request



FOPX



FOHX

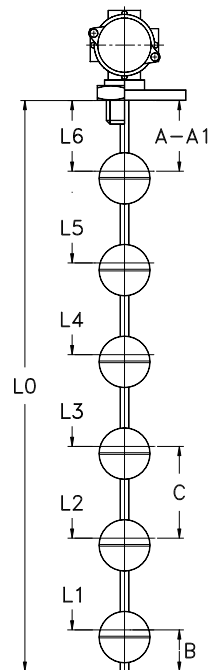


DN = UNI – DIN – ANSI flanges

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	1	NO	Contacts status in no level conditions
C	Common	Common wired contacts	2	NC	
S	Custom	Contacts wired on request	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	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

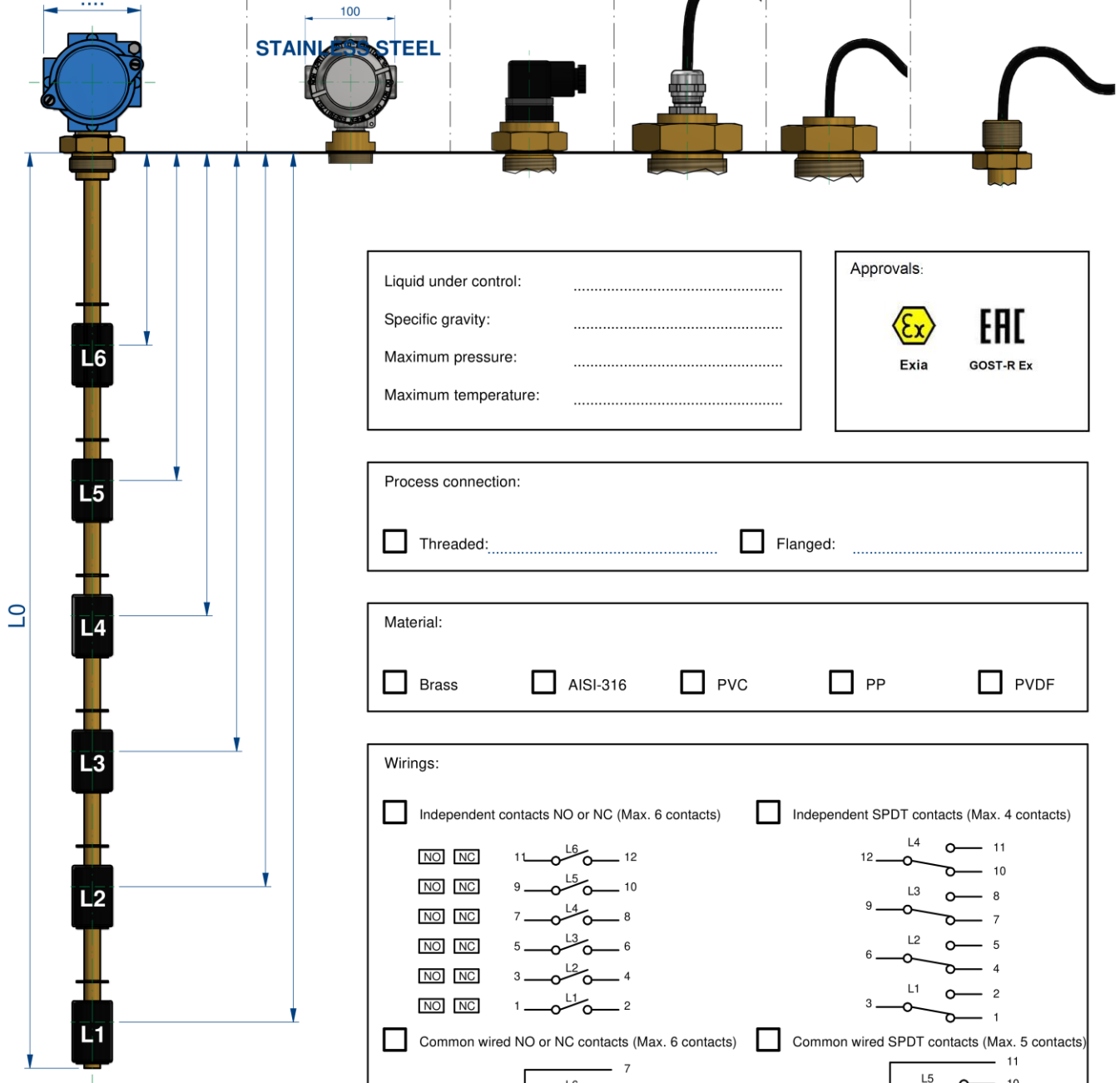
P1 Cable-gland IP68
P2 Cable-gland IP67
L cable.....mm

IC

Cable L.....mm

IC

Only internal mounting
Cable L.....mm



L0

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

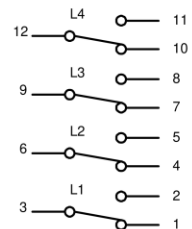
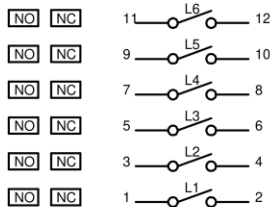
PP

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)

