LEVEL | FLOW | PRESSURE | TEMPERATURE | ELECTRONICS

Датчики уровня взрывозащищенные стандарта ATEX I – EAC GOST серии MULTIPOINT – S

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Единый адрес для всех регионов: vck@nt-rt.ru || https://valco.nt-rt.ru/

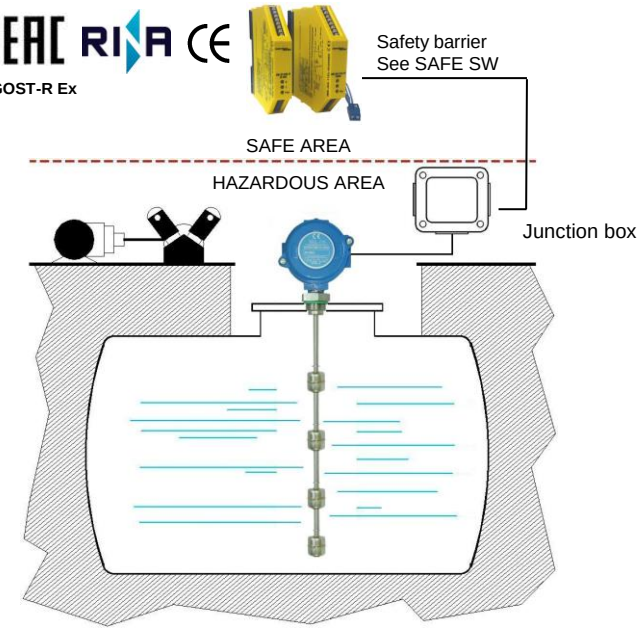
MULTIPOINT S – ATEX I

Level switch

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

- **Stainless steel – AISI 316**
- Up to 6 switch points.
- Up to 6 m length.
- Maximum working pressure 50 bar depending on used float.
- Standard working temperature up to 100°C.
- Executions up to 160°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

S29 ∅30x32	**S32** ∅30x32	**S41** ∅41x35	**S52** ∅52	**S100** ∅100

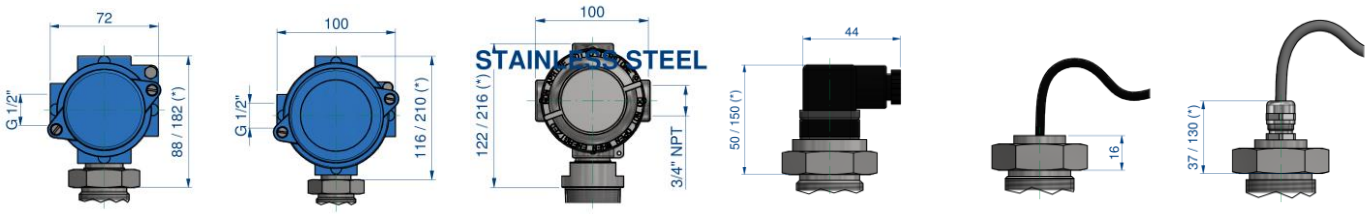
Material	Stainless steel – AISI 316								
Specific gravity	0,75		0,55		0,65		0,7		0,6
Contact type	**3**	**7D**	**3**	**7D**	**4**	**7**	**4**	**7**	**7**
Max N. of contacts	6	4	6	4	6		6		6
Max. bar	30		10		10		50		15
Max. °C - Class	**L** = 100°C								
On request	**N** = 130°C / **R** = 160°C								

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 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 **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	08	10	15		25	32	40	50	FSHX	FSPX	DN
1/8"	1/4"	3/8"	1/2"		1"	1¼"	1½"	2"	Flange	Flange	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	-	-	●
				S100	-	-	-	-	-	-	●

Male thread

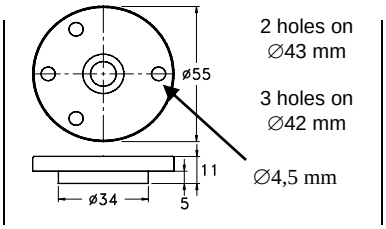
G	C	N
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT

Available materials

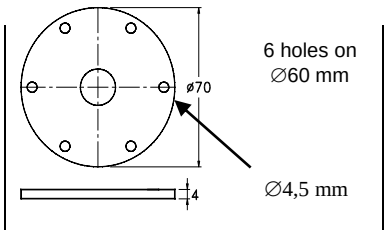
S	T
AISI-316	AISI-304 On request

DN - Available materials

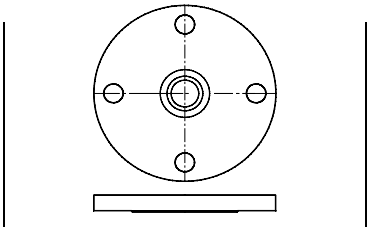
C	S
Steel	AISI-316



FSPX



FSHX

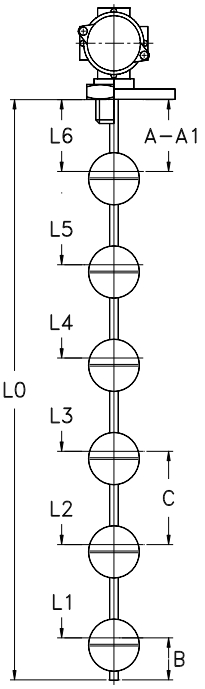


DN = UNI – DIN – ANSI Flanges

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.									
	S29		S32		S41		S52		S100	
A	20		20		30		35		60	
A1	40		40		50		55		-	
B	25		25		35		40		70	
C	45		45		65		75		125	
Contact type	3	7D	3	7D	4	7	4	7	7	
Max. N. contacts	6	4	6	4	6		6		6	

NOMENCLATURE

M2	S52	4	1300	S	50	G	S	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 S - ATEX I

Request form

External mounting | Internal mounting

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

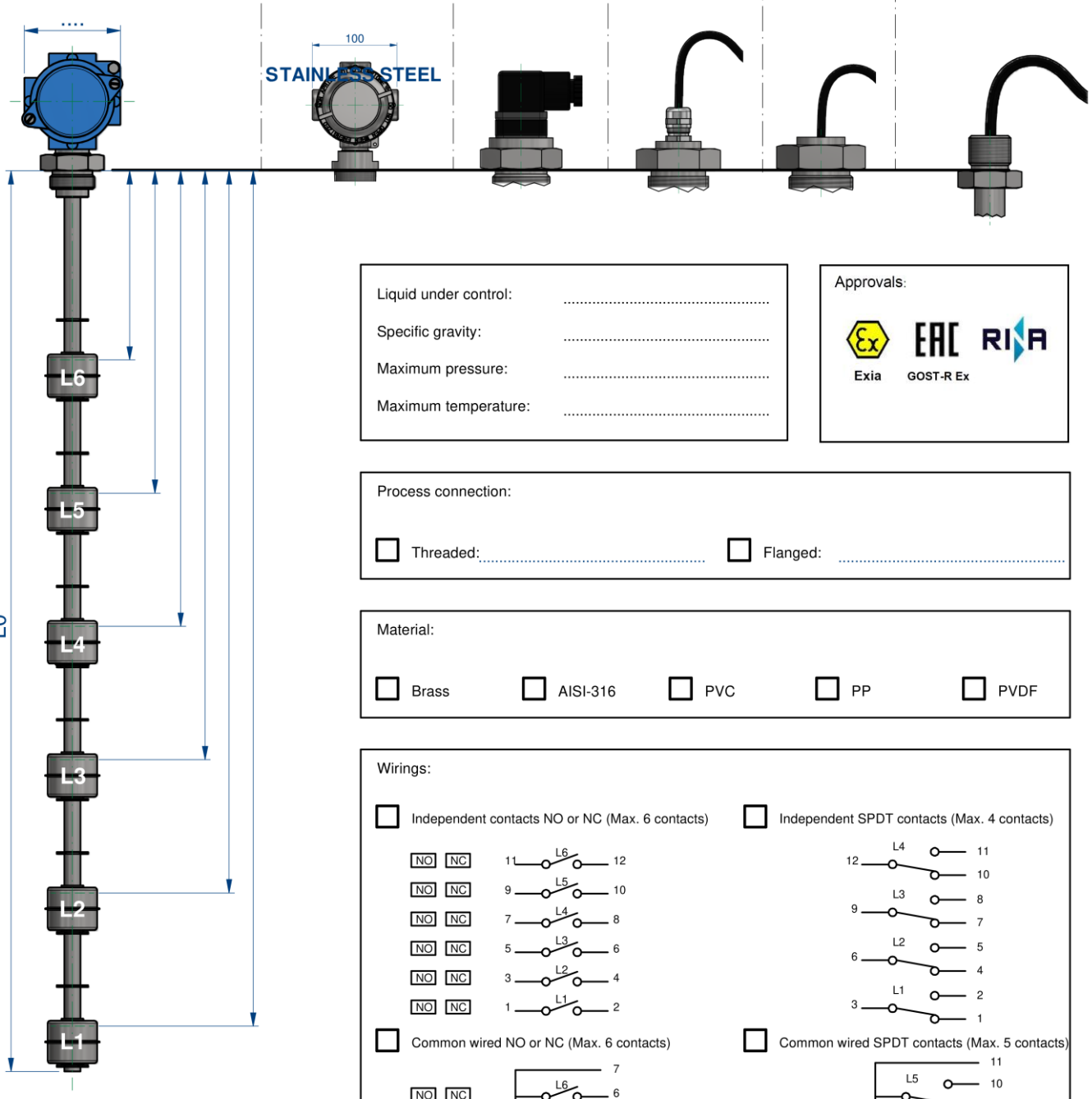
I3
Electrical housing IP 66/67
Stainless steel - AISI 316
Max. 18 terminals

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: .....

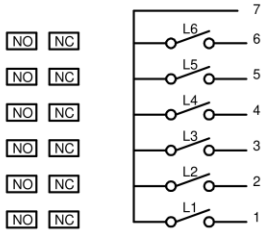
Material:
☐ Brass ☐ AISI-316 ☐ PVC ☐ PP ☐ PVDF

Wirings:

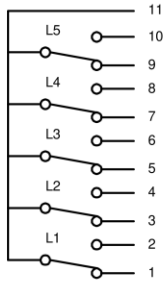
☐ Independent contacts NO or NC (Max. 6 contacts)

☐ Independent SPDT contacts (Max. 4 contacts)

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



☐ Common wired SPDT contacts (Max. 5 contacts)



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