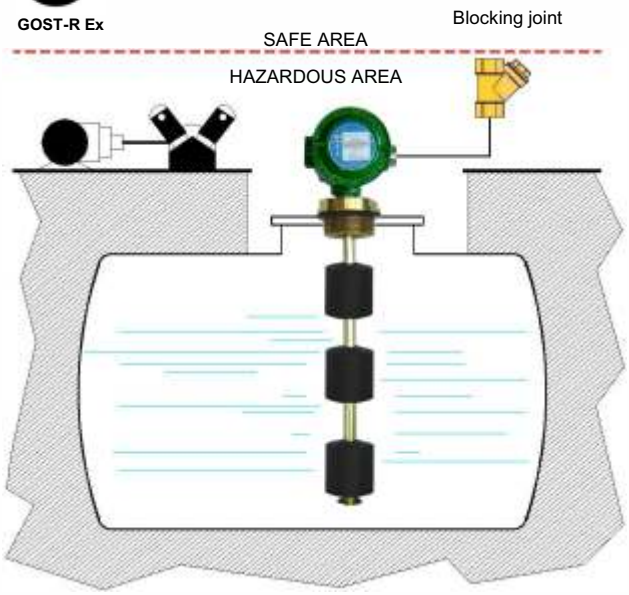
LEVEL SWITCHES ATEX TYPE MULTIPOINT O.E1

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

These instruments, explosion-proof certified CESI 03 ATEX 272 Ext.2 II 1/2G Exd IIB IIC T6/T5 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 treate

Exd GOST-R Ex



STANDARD DATA SHEET

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
T6 -40/+40°C T5 -40/+60°C
Minimum degree of protection IP67.
Built-in temperature sensors, on request.
PT – PTC – NTC – Thermostat (Thermoprotector).

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**	**6D**	**3**	**6D**	**3**	**3**	**6D**	**4**	**6**	**4**	**6**	
Max N. contacts	1	4	3	4	3	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	**6**	60	60	230	230	1	1
SPDT	**6D**	20	20	150	150	0,5	0,5

ELECTRICAL OUTPUT Tab3

E1	IP67 Housing Max. 18 terminals

Heatsink - see dimension (*)	Temperature class **M**

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PROCESS CONNECTION Tab.4

Float type	Installation from outside – available thread and flanges							
	20 3/4"	**25** 1"	**32** 1¼"	**40** 1½"	**50** 2"	**FOHX** Flange	**DN50** Flange	**DN65** Flange
B13	G-C-N	-	-	-	-	-	-	-
B22	G-C-N	G-C-N	-	-	-	●	-	-
B28	G-C-N	G-C-N	-	-	-	●	-	-
B15	-	G-C-N	-	-	-	-	-	-
B20	-	G	G-C-N	-	-	●	●	-
B45	-	G	G-C-N	G-C-N	-	●	●	-
B44	-	-	-	G	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.

FOHX

DN = UNI – DIN – ANSI flanges

WIRING Tab.5

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

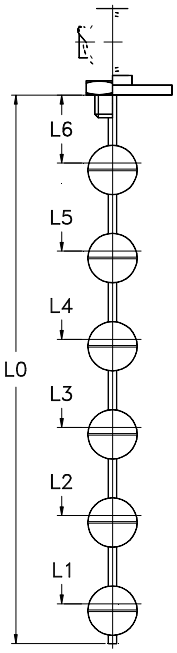
1	**NO**
2	**NC**
3	**SPDT**

Contacts status in no level conditions

SWITCH POINTS - minimum value in mm. Tab.6

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

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



OPTION – Built-in temperature sensor

On request, it is possible to install a temperature sensor located at the bottom of the rod inside the instrument.

PT100 – PT1000	PTC	NTC	TRP (Thermoprotector)	
EN 60751 – IEC 751	Resistance at 25°C ≤ 500 Ω	Resistance at 25°C 2-5-10-50-100 KΩ	70°C ÷ 120°C - 10°C step	
Class B – A (on request)	Temperature 60°C ÷ 120°C	Precision ± 5% / ± 3% (on request)	Precision ± 5%	Differential 40°C

NOMENCLATURE

M2	B45	4	1300	S	25			E1	L	I22	L1÷L6		
●													Number of contacts S1 / M2÷M6
	●											Tab.1	Float
		●										Tab.2	Electrical contact
			●									-	Total length = L0 in mm. (See drawing)
				●								Tab.4	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)

All level controls Exd certified must be connected by interposing the appropriate blocking joints according to the European Standard EN 50018