



LEVEL



FLOW



PRESSURE



TEMPERATURE



ELECTRONICS



# Датчики уровня взрывозащищенные стандарта АTEX I – ЕАС GOST серии MULTIPPOINT – O

Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81

Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16

Казахстан (7273)495-231

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13

Таджикистан (992)427-82-92-69

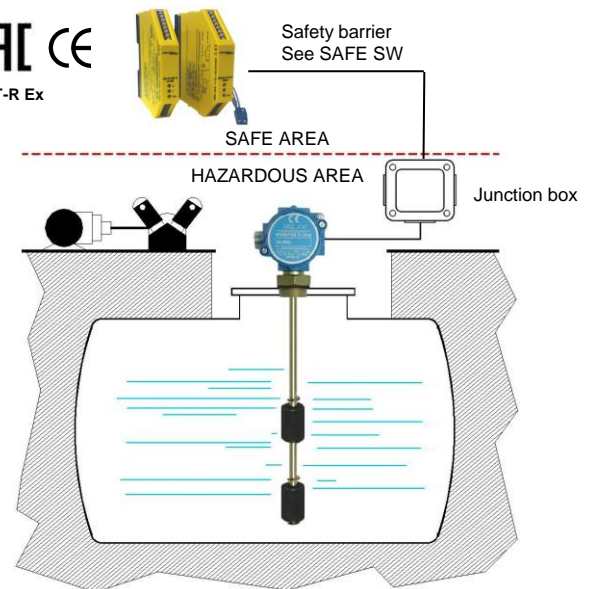
Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

Единый адрес для всех регионов: [vck@nt-rt.ru](mailto:vck@nt-rt.ru) || <https://valco.nt-rt.ru/>

## 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



<b>Material</b>	Spansil – Butadiene - Acrylonitrile Copolymer												
<b>Specific gravity</b>	0,59	0,44		0,4		0,45		0,4		0,35		0,45	
<b>Contact type</b>	<b>3</b>	<b>3</b>	<b>7D</b>	<b>3</b>	<b>7D</b>	<b>3</b>	<b>3</b>	<b>7D</b>	<b>3</b>	<b>4</b>	<b>7</b>	<b>4</b>	<b>7</b>
<b>Max N. contacts</b>	1	4	3	4	3	6	6	6	6	4	3	6	6
<b>Max. bar</b>	10	20											
<b>Max. °C - Class</b>	L = 100°C												
On request	M = 120°C												

## ELECTRICAL CONTACTS

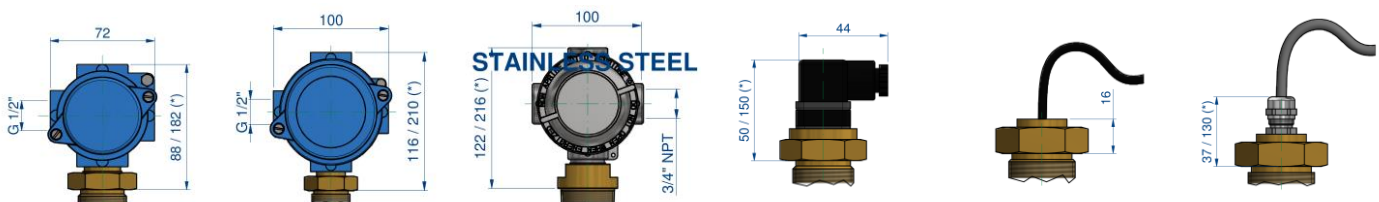
Tab.2

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

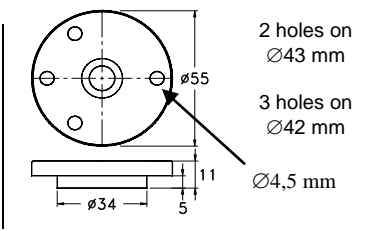
G	C	N
Parallel UNI 228/1	Conical UNI 7/1	Conical NPT

### Available materials

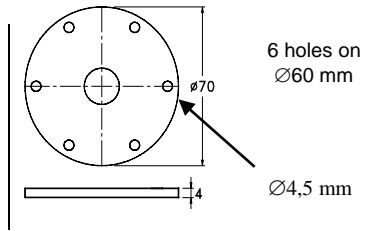
O	S
Brass	AISI-316 On request

### DN = Available materials

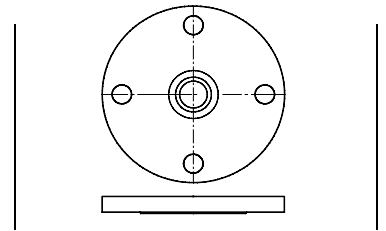
C	S
Steel	AISI-316 On request



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

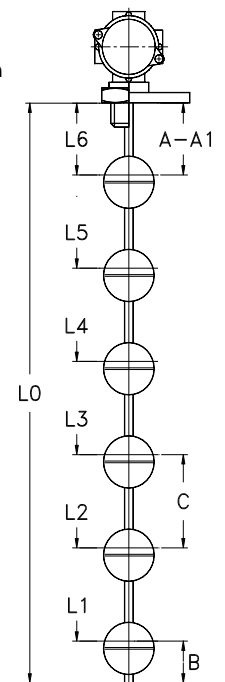
I	Independent	Separately wired contacts	1	NO	Contacts status in no level conditions
C	Common	Common wired contacts	2	NC	
S	Custom	Contacts wired on request	3	SPDT (*)	

(\*) 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	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

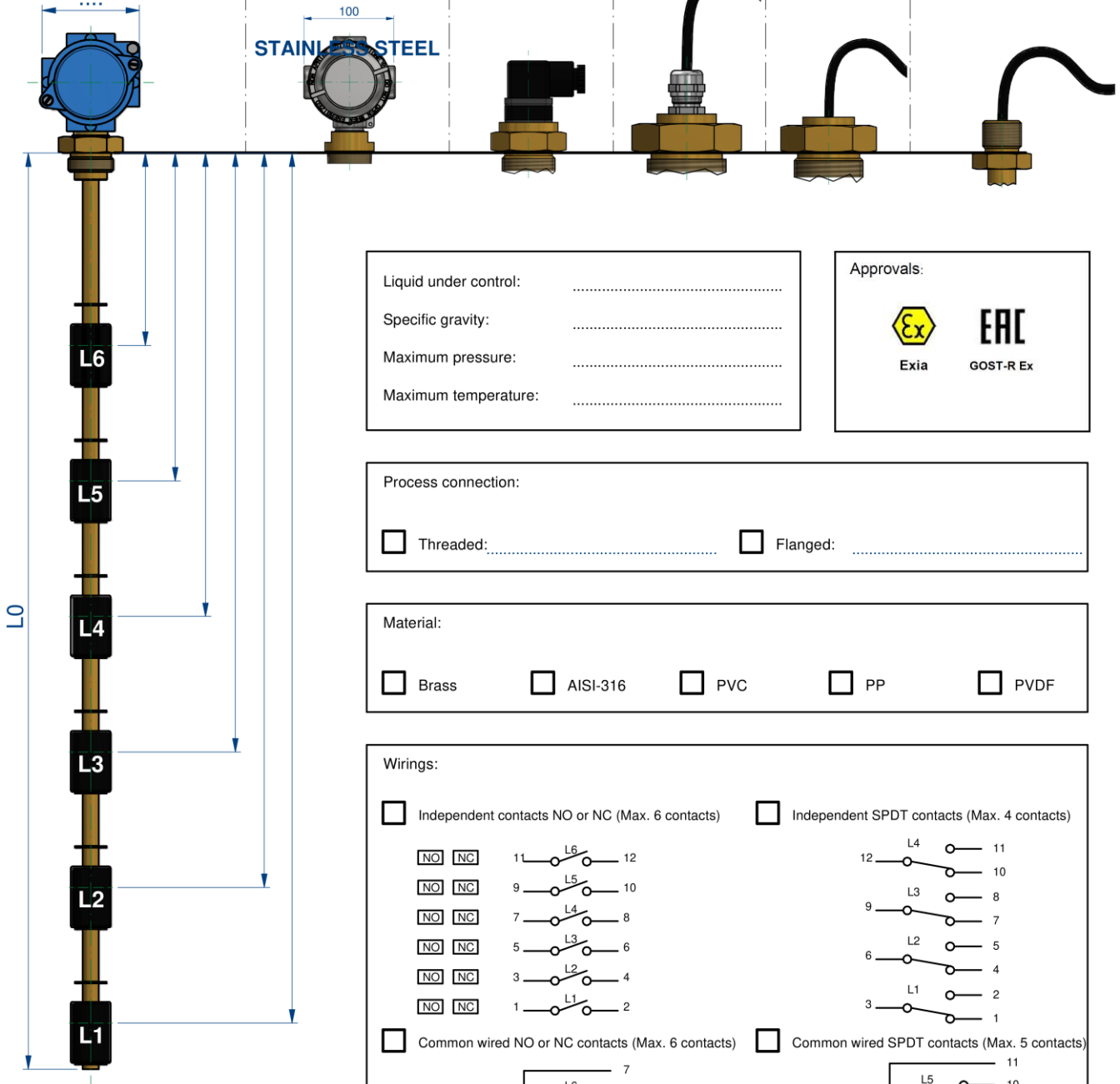
P1 Cable-gland IP68  
P2 Cable-gland IP67  
L cable.....mm

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:

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)

## По вопросам продажи и поддержки обращайтесь:

**Архангельск** (8182)63-90-72  
**Астрахань** (8512)99-46-04  
**Барнаул** (3852)73-04-60  
**Белгород** (4722)40-23-64  
**Брянск** (4832)59-03-52  
**Владивосток** (423)249-28-31  
**Волгоград** (844)278-03-48  
**Волгода** (8172)26-41-59  
**Воронеж** (473)204-51-73  
**Екатеринбург** (343)384-55-89  
**Иваново** (4932)77-34-06

**Ижевск** (3412)26-03-58  
**Иркутск** (395)279-98-46  
**Казань** (843)206-01-48  
**Калининград** (4012)72-03-81  
**Калуга** (4842)92-23-67  
**Кемерово** (3842)65-04-62  
**Киров** (8332)68-02-04  
**Краснодар** (861)203-40-90  
**Красноярск** (391)204-63-61  
**Курск** (4712)77-13-04  
**Липецк** (4742)52-20-81

**Киргизия** (996)312-96-26-47

**Магнитогорск** (3519)55-03-13  
**Москва** (495)268-04-70  
**Мурманск** (8152)59-64-93  
**Набережные Челны** (8552)20-53-41  
**Нижний Новгород** (831)429-08-12  
**Новокузнецк** (3843)20-46-81  
**Новосибирск** (383)227-86-73  
**Омск** (3812)21-46-40  
**Орел** (4862)44-53-42  
**Оренбург** (3532)37-68-04  
**Пенза** (8412)22-31-16

**Казахстан** (7273)495-231

**Пермь** (342)205-81-47  
**Ростов-на-Дону** (863)308-18-15  
**Рязань** (4912)46-61-64  
**Самара** (846)206-03-16  
**Санкт-Петербург** (812)309-46-40  
**Саратов** (845)249-38-78  
**Севастополь** (8692)22-31-93  
**Симферополь** (3652)67-13-56  
**Смоленск** (4812)29-41-54  
**Сочи** (862)225-72-31  
**Ставрополь** (8652)20-65-13

**Таджикистан** (992)427-82-92-69

**Сургут** (3462)77-98-35  
**Тверь** (4822)63-31-35  
**Томск** (3822)98-41-53  
**Тула** (4872)74-02-29  
**Тюмень** (3452)66-21-18  
**Ульяновск** (8422)24-23-59  
**Уфа** (347)229-48-12  
**Хабаровск** (4212)92-98-04  
**Челябинск** (351)202-03-61  
**Череповец** (8202)49-02-64  
**Ярославль** (4852)69-52-93

Единый адрес для всех регионов: [vck@nt-rt.ru](mailto:vck@nt-rt.ru) || <https://valco.nt-rt.ru/>



LEVEL



FLOW



PRESSURE



TEMPERATURE



ELECTRONICS