



LEVEL



FLOW



PRESSURE



TEMPERATURE



ELECTRONICS



Датчики уровня 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 || <https://valco.nt-rt.ru/>

GENERAL CHARACTERISTICS



The principle of operation of these instruments is based on the drive of one or more magnetic reed contacts, placed inside of the measuring rod, by one or more floats. The only moving element is the float that moves, for buoyancy, along the measuring rod, this guarantees extreme robustness and a limited need for maintenance.

- **Brass – Spansil**
- Up to 6 switch points.
- Up to 6 m length.
- Maximum working pressure 20 bar.
- Operating ambient temperature -30/+55°C UR 90%.
- Standard working temperature up to 105°C. Executions up to 120°C on request.
- Minimum degree of protection IP65.
- Built-in temperature sensors, on request. PT – PTC – NTC – Thermostat.
- ATEX constructions (See Multipoint E – Multipoint I series)



FLOATS

Tab.1



Material	Spansil – Butadiene - Acrylonitrile Copolymer										
Specific gravity	0,59	0,4	0,45	0,4	0,35	0,45					
Contact type	3	3	7D	3	3	7D	3	4	7	4	7
Max N. of contacts	1	4	3	6	6	6	6	4	3	6	6
Max. bar	10	20	20	20	20	20	20	20	20	20	20
Max. °C - Class	L = 105°C										
On request	M = 120°C										

ELECTRICAL CONTACTS

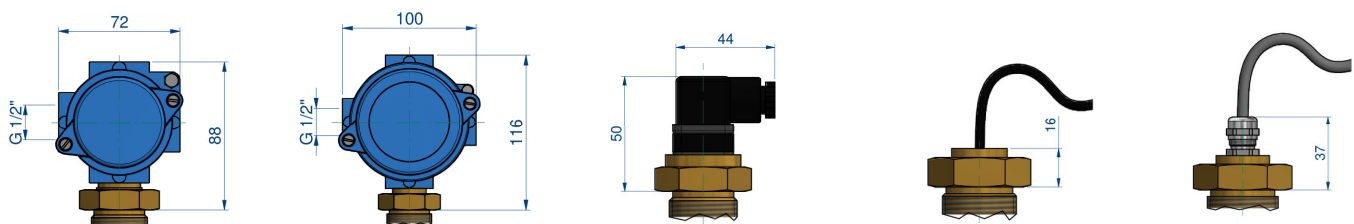
Tab.2

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

ELECTRICAL OUTPUT

Tab.3

W1 IP65 Housing	W2 IP65 Housing	S1 – S2 DIN IP65 Plug	C1 – C2 – T1 Cable – Leads	P1 – P2 Cable-gland
Max. 5 terminals	Max. 18 terminals	S1 DIN43650 29x29 S2 DIN43650 15x15	C1 Cable L = 1,5m C2 Cable L = 3,0m T1 Leads L = 1,5m	P1 Brass IP68 P2 Polyamide IP67



PROCESS CONNECTIONS

Tab.4

Installation from inside C- P-T 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	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

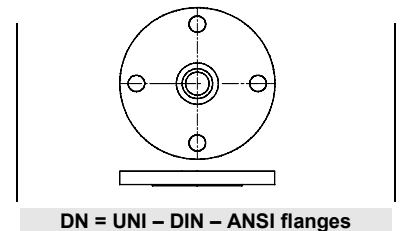
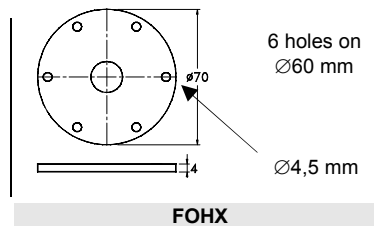
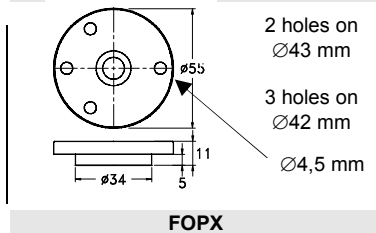
O	D	S
Brass	Anodized aluminium	AISI-316 On request

DN = Available materials

C	S
Steel	AISI-316 On request

FLANGES

Dimensions in mm.



WIRING

Tab.5

I	Independent	Separately wired contacts	1	NO
C	Common	Common wired contacts	2	NC
S	Custom	Contacts wired on customer request	3	SPDT

Contacts status in no level conditions

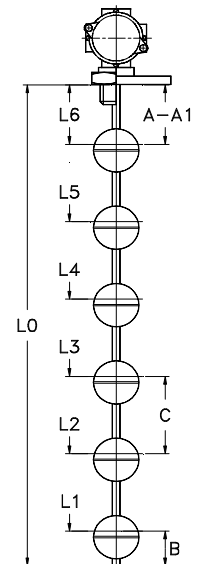
SWITCH POINTS

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

A Flanged connection
A1 Threaded connection



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	TRM (Thermostat)
EN 60751 - IEC 751	Resistance at 25°C ≤ 500 Ω	Resistance at 25°C 2-5-10-50-100 KΩ	40°C ÷ 120°C - 10°C step
Class B - (Class A on request)	Temperature 60°C ÷ 120°C	Precision ± 5% / ± 3% (on request)	Precision ± 5% Differential 10°C ± 4°C

NOMENCLATURE

M2	B45	4	1300	O	25	G	O	W1	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 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 0



Request form

External mounting

Internal mounting

W1 **W2**

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

S1 **S2**

Plug DIN 43650
29x29 or 15x15
Max 3 terminals

P1 **P2**

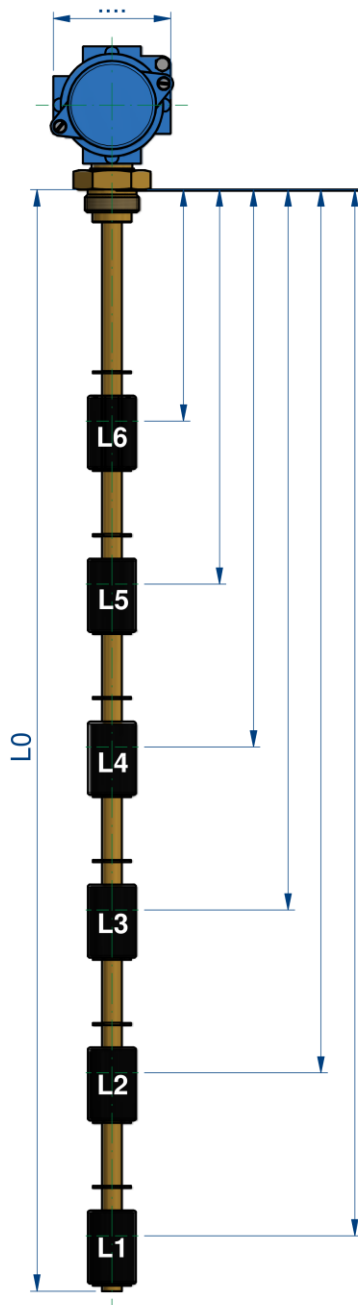
P1 Cable - gland IP68
P2 Cable - gland IP67
L cavo.....mm

C **T**

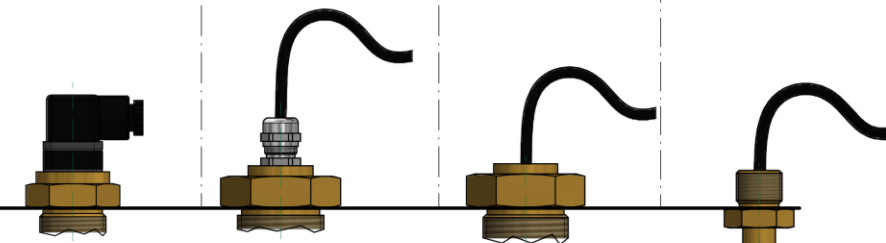
Cable - Leads
L.....mm

C

Only external mounting
Cable L.....mm



Total length
L0 (mm)



Liquid under control:

Specific gravity:

Maximum pressure:

Maximum temperature:

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)

<input type="checkbox"/> NO <input type="checkbox"/> NC	11 — L6 — 12	<input type="checkbox"/> 12 — L4 — 11
<input type="checkbox"/> NO <input type="checkbox"/> NC	9 — L5 — 10	<input type="checkbox"/> 12 — L4 — 10
<input type="checkbox"/> NO <input type="checkbox"/> NC	7 — L4 — 8	<input type="checkbox"/> 9 — L3 — 8
<input type="checkbox"/> NO <input type="checkbox"/> NC	5 — L3 — 6	<input type="checkbox"/> 9 — L3 — 7
<input type="checkbox"/> NO <input type="checkbox"/> NC	3 — L2 — 4	<input type="checkbox"/> 6 — L2 — 5
<input type="checkbox"/> NO <input type="checkbox"/> NC	1 — L1 — 2	<input type="checkbox"/> 6 — L2 — 4
		<input type="checkbox"/> 3 — L1 — 2
		<input type="checkbox"/> 3 — L1 — 1

Common wired NO or NC contacts (Max. 6 contacts) Common wired SPDT contacts (Max. 5 contacts)

<input type="checkbox"/> NO <input type="checkbox"/> NC	7	<input type="checkbox"/> 11
<input type="checkbox"/> NO <input type="checkbox"/> NC	L6 — 6	<input type="checkbox"/> L5 — 10
<input type="checkbox"/> NO <input type="checkbox"/> NC	L5 — 5	<input type="checkbox"/> L4 — 9
<input type="checkbox"/> NO <input type="checkbox"/> NC	L4 — 4	<input type="checkbox"/> L4 — 8
<input type="checkbox"/> NO <input type="checkbox"/> NC	L3 — 3	<input type="checkbox"/> L3 — 7
<input type="checkbox"/> NO <input type="checkbox"/> NC	L2 — 2	<input type="checkbox"/> L3 — 6
<input type="checkbox"/> NO <input type="checkbox"/> NC	L1 — 1	<input type="checkbox"/> L2 — 5
		<input type="checkbox"/> L2 — 4
		<input type="checkbox"/> L1 — 3
		<input type="checkbox"/> L1 — 2
		<input type="checkbox"/> L1 — 1

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 || <https://valco.nt-rt.ru/>



LEVEL



FLOW



PRESSURE



TEMPERATURE



ELECTRONICS