

# MULTI-CONTACT LEVEL SWITCHES TYPE MULTIPOINT S



Rev.01/2019

## DATI TECNICI STANDARD

- Stainless steel – AISI 316
- Up to 6 switch points. - Up to 6 m length.
- Working pressure up to 50 bars depending on the used float.
- Operating ambient temperature -30/+55°C UR 90%
- Standard working temperature 105°C
- Executions up to 180°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	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 = 105°C									
On request	N = 130°C - S1 and S2 outputs				R = 150°C				H = 180°C	

## ELECTRICAL CONTACTS

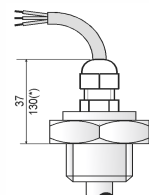
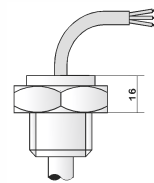
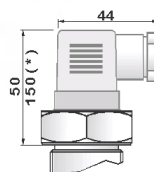
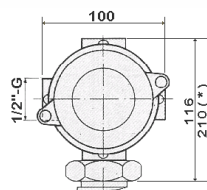
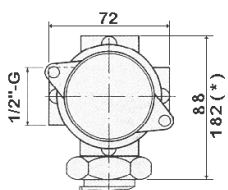
Tab.2

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 = 1,0m	P1 Brass IP68 P2 Polyamide IP67



With heatsink - see overall dimension (\*) W1 – W2 = Temperature class H

S1– S2– P1 = Temperature class R – H

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# MULTI-CONTACT LEVEL SWITCHES TYPE S

## 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"		25 1"	32 1 1/4"	40 1 1/2"	50 2"	FSHX Flange	FSPX Flange	DN 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

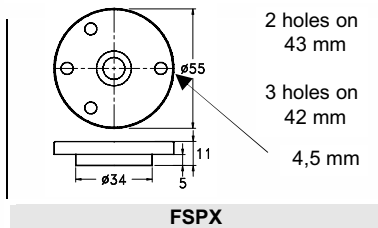
S	T
AISI-316	AISI-304 On request

### DN - Available materials

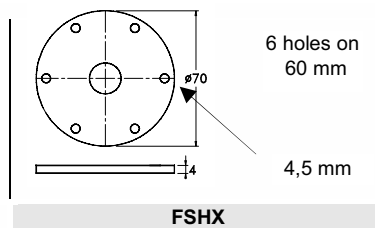
C	S
Steel	AISI-316

### FLANGES

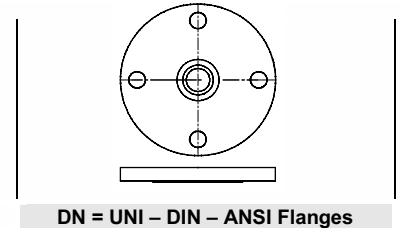
Dimensions in mm.



FSPX



FSHX



DN = UNI - DIN - ANSI Flanges

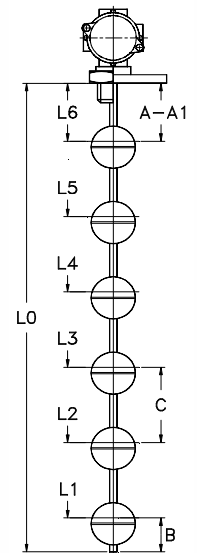
## WIRING

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

A Flanged connection  
A1 Threaded connection



## 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.									
	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. of contacts	6	4	6	4	6		6		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	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 S41 4 1300 S 50 G S 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)