

GENERAL FEATURES

Magnetostrictive continuous level transmitters base their operation on the physical principle called Wiedemann effect and it allows continuous and precise measurement of liquid levels. The electronic unit sends a pulse within a waveguide contained in the measuring rod; the magnetic float intercepts the pulse generating an echo that is detected by the same electronic unit.

The elapsing time between the emission of the pulse and its recognition is directly proportional to the position of the float, and then to the value of the level to be measured.

Brass - Spansil

- 1 analog output, current or voltage.
- 2 analog outputs, current and voltage.
- 2 factory programmable PNP digital outputs.
- RS485 serial output, Valco protocol.
- Programming via dedicated handheld computer VSP.130, on request
- Up to 2, 9 m length.
- Working pressure up to 20 bar
- Operating ambient temperature -30 / +70 °C, RH 90%.
- Standard working temperature up to 105 °C
120 °C working temperature on request.
- Minimum degree of protection IP67.



See MULTISIGNAL

TECHNICAL DATA

Tab.1

Power supply	18 ÷ 30 Vcc	Analog output	Current	• 4-20mA	420
Power consumption	< 100 mA		Voltage	0-5V	005
Signal output resolution	< 1 mm			0-10V	010
Accuracy	≤ 1 mm			0,5-4,5V	545
Room temperature	-30 / +70°C	Communication output	Current / Voltage	4-20mA/0-10V	420/10
Process temperature	105° C 150° C with heat sink		RS485 - Valco protocol		RS485
Measuring length L0	2, 9 m - max. 2, 8 m - max. - 150°C application		N.2 Digital output factory programmable	2 x PNP - not protected maximum load 100mA	2PNP
Electrical connection	S5 Conec M12 x 1, 8 poles	Programming of instrument	Via dedicated handheld computer VSP.130 available on request		
Protection class	IP67				

- Standard, others signal output and indicated option on request

FLOATS

Tab.2

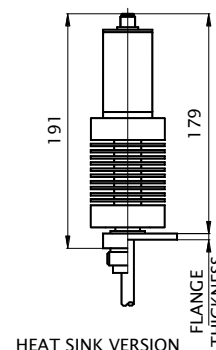
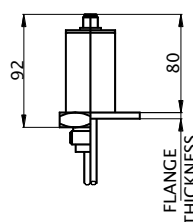


Material	Spansil – Butadiene - Acrylonitrile Copolymer	
Specific gravity	0,35	0,45
Max. pressure – Bar	20	20
Max. temperature – Class	L = 105°C - M = 120°C	

ELECTRICAL OUTPUT

Tab.3

S5	L	105°C	Standard	Anodized aluminum
	M	120°C	With heat sink	



PROCESS CONNECTIONS

Tab.4

Type of float	Mounting from outside					
	25 1"	32 1-1/4"	40 1-1/2"	50 2"	FOHX Flange	DN65 Flange
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

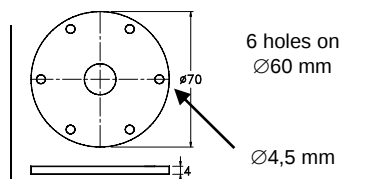
Available materials

O	S
brass	AISI-316 on request

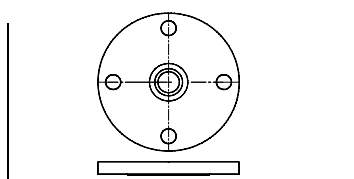
DN = Available materials

S	C
AISI-316	Steel on request

FLANGES Dimensions in mm.



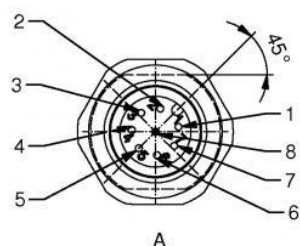
FOHX



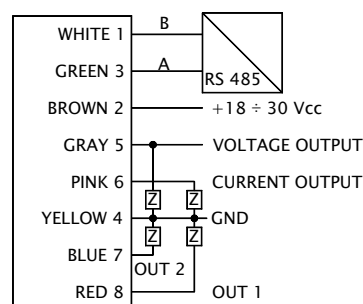
DN = UNI - DIN - ANSI Flanges

A Flanged connection
A1 Threaded

WIRING



PIN	SIGNAL
1	RS485 - line B
2	Power supply +V
3	RS485 - line A
4	Ground
5	Analog output - voltage
6	Analog output - current
7	Digital output - PNP2
8	Digital output - PNP1



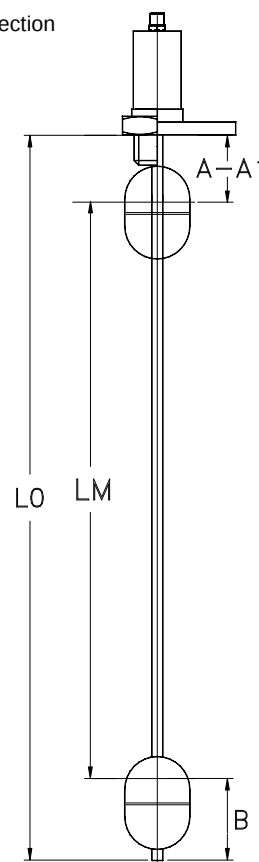
DIMENSIONS mm.

Tab.5

The dimension L0 - LM is measured from the stop of the fitting (A1) or flange (A) connection. Tolerance on dimension L0 - LM ± 3 mm.

	B44	B45
A	75	75
A1	60	60
B	65	85

Damping tube	- L	- O
On request	aluminum	brass



NOMENCLATURE

LCM	B44	1300 / 1400	O	- L	50	G	O	420	S5	L
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Type	Tab.2
Float	Tab.2
Measuring length LM / Total length L0 (mm)	Tab.5
Rod material	Tab.2-4
Damping tube (option)	Tab.5
Process connection dimension	Tab.4
Process connection thread	Tab.4
Process connection material	Tab.4
Analog output and options required	Tab.1
Electrical output.	Tab.3
Temperature class	Tab.2-3

CABLE- PLUG

Connection cable 2m. with connector M12x1

Accessory on request