# SIMPLE ML

# Level switch

## **GENERAL CHARACTERISTICS**

These level switches (**ML series**) constitute a simple, reliable and economic solution for the control of the level in all those applications where the space and simplicity of assembly are mandatory for the user.

- Small size.
- Economical and reliable.
- Executions in Polypropylene and PVDF
- Operating ambient temperature -30 / +55 °C 90% RH.
- Easy and quick installation.
- Degree of protection IP65.



### TECHNICAL DATA

Туре	Material		Float S.G.	<b>Pressure</b> Bar	Temperature °C
PML	Polypropylene	Blue	0,6	3	90
FML	PVDF	Black	0,75	6	130

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### **PROCESS CONNECTIONS**

Tab.2

Tab.1

Assembly f	rom inside the tan	k		Assembly fr	om outside t	he tank	and availab	le threa	ads	
	16K			GC-			15		20	
	dy thread M16 x 1,	5	Viton	standard compr		t.	1/2	,	3/4"	
Installa	ation see Tab.4			Installation see	e Tab.4		C –	N	C – N	1
Male thread		Available	e materials			Gas	sket			
С	N	0	S	Р	F		Viton	Ζ	Silicon	W

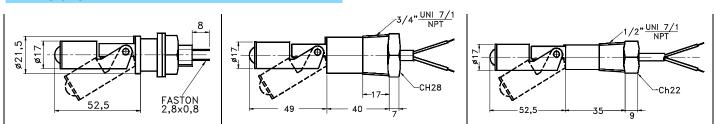
С	N	0	S	Р	F	Viton	Z	Silicon	W
Conical UNI 7/1	Conical NPT	Brass	AISI-316	Polypropylene	PVDF	Standard		On request	:
15 – 20	)	1	5 – 20	16K			16K –	GC	

## ELECTRICAL CONTACT Tab.3

TY	'PE	POW	/ER	VOLT	AGE	CURF	RENT
		VA	W	AC	DC	AC	DC
3D	SPST	70	50	300	350	0,5	0,7
7D	SPDT	20	20	150	150	0,5	0,5
Wiring							

C1	1,5m cable	С	Cable length on request
C2	3m cable	FST	Male faston 2 x 0,8





Pressure

Temperature

N.B. Faston wiring is available only on 16K – GC version.

Level

Flow

We reserve the right to change the data without notice



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### **OPERATION**

A normally open reed contact is sealed in the body of the instrument, in the float there is housed a permanent magnet. At the moment in which the thrust of the liquid, lifting up the float, approaches the magnet to the electrical contact occurs the closure of the contact itself.

Rotating the instrument through 180 degrees around its own axis, the float will be, in the absence of level, against the abutment point and the contact will be closed.

The thrust of the liquid, in this case, depart the float from the contact causing it to open.

### ASSEMBLY AND INSTALLATION

Tab.4

#### Assembly from inside the tank 16K

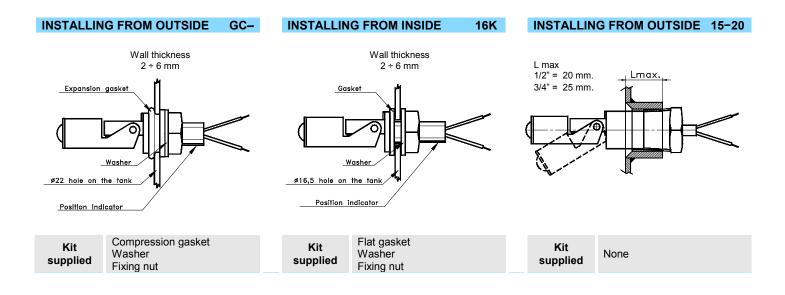
- Drill a hole Ø 16.5 mm in the tank.
- Unscrew the fixing nut and remove the washer and the expansion gasket.
- Insert the flat sealing gasket.
- Insert the level switch into the hole (∅ 16.5 mm) of the tank.
- Screw the fixing nut up to compress the flat gasket, inside the tank, taking the position indicator downward to have the contact N.O. or upward to have the contact N.C.

OFF

#### Assembly from outside the tank GC-

- Drill a hole  $\oslash$  22 mm in the tank.
- Insert the level switch into the hole until the compression gasket stops.
- Screw the fixing nut so that the gasket begins to expand inside the tank.
- Place the position indicator downward to have the N.O. contact or upward to have the N.C. contact.
- Tighten the nut in order to complete the expansion of the gasket and thus obtain the tightness of the system.

Caution: Verify that the holes for housing the instrument, in the tank, are carefully deburred, in order to avoid damage to the seal and to obtain a perfect hydraulic seal.



NOME	NCLATUR	E					
S1	FML	3D	20 C	S	C1	M	
•							
	•						Tab.1
		•					Tab.3
			•				Tab.2
				•			Tab.2
					•		Tab.3
						•	Tab.3

Pressure

Temperature-

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Level

Flow

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