

HLADINOVÝ SPÍNAČ

ML

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

Tab.1

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

PROCESS CONNECTIONS

Tab.2

Assembly from inside the tank	Assembly from outside the tank and	available threads	
16K	GC-	15	20
Standard body thread M16 x 1,5	Viton standard compression gasket.	1/2"	3/4"
Installation see Tab.4	Installation see Tab.4	C – N	C – N

С	N
Conical UNI 7/1	Conical NPT
15 – 20	

Available materials

0	S	Р	F
Brass	AISI-316	Polypropylene	PVDF
15 -	- 20	16K	

Gasket

Viton	Z	Silicon	W
Standard		On request	
	16K – (GC	

ELECTRICAL CONTACT

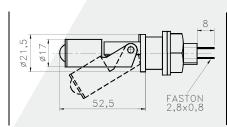
Tab.3

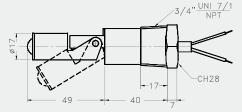
TYPE		POWER		VOLT		CURRENT	
		VA	W	AC	DC	AC	AC
3D	SPST	70	50	300	350	0,5	0,7
7D	SPDT	20	20	150	150	0,5	0,5

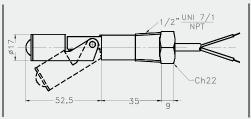
Wiring

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

DIMENSIONS







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



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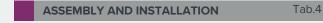
ML

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.



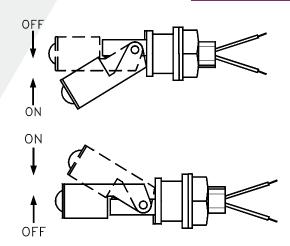
Assembly from inside the tank 16K

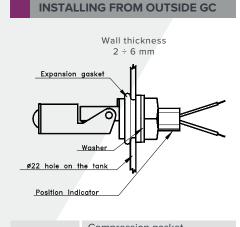
- Drill a hole Ø 16.5 mm in the tank.
- Unscrew the fixing nut and remove the washer and the expansion gasket.
- Insert the flat sealing gasket.
- Insert the level switch into the hole (Ø 16.5 mm) of the tank.
- Screw the fixing nut up to compress the flat gasket, inside the tank, taking the position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

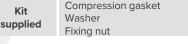
Assembly from outside the tank GC-

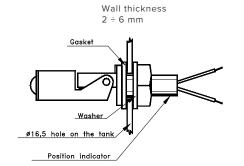
- Drill a hole 22 mm in the tank.
- Insert the level switch into the hole until the compression gasket stops.
- Screw the fixing nut so that the gasket begins to expand inside the tank.
- Place the position indicator downward to have the N.O. contact or upward to have the N.C. contact.
- Tighten the 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.



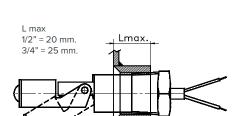






INSTALLING FROM INSIDE 16K

Kit	Flat gasket Washer
supplied	Fixing nut



INSTALLING FROM OUTSIDE 15-20

Kit supplied	None	

NOMENCLATURE

S1	FML	3D	20 C	S	C1	M		
*								N.1 electrical contact
	*						Tab.1	Type
		*					Tab.1	Electrical contact
			*				Tab.1	Process connection – dimension and type
				*			Tab.1	Sealing gasket material or material for 15-20 version
					*		Tab.1	Wiring
						*	Tab.1	Cable length – only for type C wiring