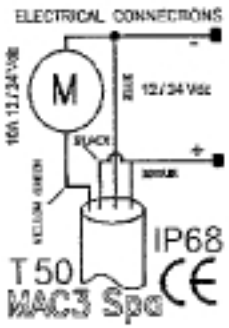
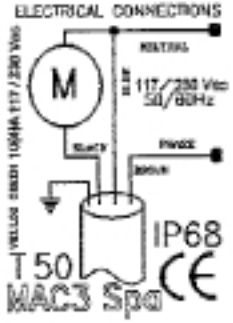
WIRING

Installation should be made, by qualified personel, by following the wiring diagrams here below and (when necessary, see the direct current version) **respecting the polarity**.
Before effecting the wiring connections, make certain that the general switch that feeds the pump is in the off position and thus there is no current.
Pay particular attention that the rated power is the same as that of the pump.





NOTAS
Always disconnect the power supply from the main power panel before undertaking any operations on the device.
If the device is used in filling mode, the system must be fitted with an adequate overflow device.

REKA 2000

Capacitive level regulator

The REKA 2000 level regulator is a device that controls electronic equipment once it has reached a pre-established level. A capacity sensor is integrated in the plastic structure and this makes it suitable for a wide range of liquids. It is easily installed near the pump itself thanks to the two holes placed on the structure. The functioning principle of the device is based on capacitive variation caused by the liquid level in which the two extensions are immersed.The electronic circuitry contained on the inside measures the variations and activates the switchover of the relay.

REKA for main power supply:
This model is fed by the main power supply and thanks to the internal relay, it is able to action pumps up to 2HP (230Vac.)

REKA RETARD for direct current:
The REKA 2000 for supply voltages 12Vdc and 24Vdc is fed by battery and is produced in the version RETARD. The device REKA RETARD comes out of the factory, programmed with a delay of 3 seconds. Upon request, material can be produced within the factory with delay that can be programmed according to indications from the customer, in a range of from 0 to 8 seconds. This device has been studied to be a valid and reliable liquid control system for sailing vessels or boats of any dimension.

Connessioni

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Code	TKZC4000E0	TKZC4000F0	TKZC4001B0	TKZC4001A0
Power supply	12Vcc	24Vcc	117Vca	230Vca
Power consumption	120mA	100mA	30mA	10mA
Delay time	0 ÷ 8 sec	0 ÷ 8 sec	none	none
Difference threshold	9 ± 1cm. (*)			
High level	12 ± 2cm.			
Output relay	Relé 250V-10(4)A			
Max. load	120W	240W	1300VA	2300VA
Dielectric strenght	1500V			
Operating temperature	50 °C max.			
Storage temperature	-20 °C +80 °C			
Pollution index	IP68			
Housing	Non toxic polypropylene(PP)			
	Yellow	Yellow	Red	Red
Weight	gr. 185	gr. 190	gr. 240	gr. 240
Dimensions	mm. 93 x 250			
Mounting	Vertical position			
Power supply/output	cable H07RN-F 4G1			
Approved certificates	CE - EN60730			

(*) Referred to water

Compatibility of liquids.
In relation to the type of liquid to be controlled, the levels of switchover vary according to the graph here on your right.

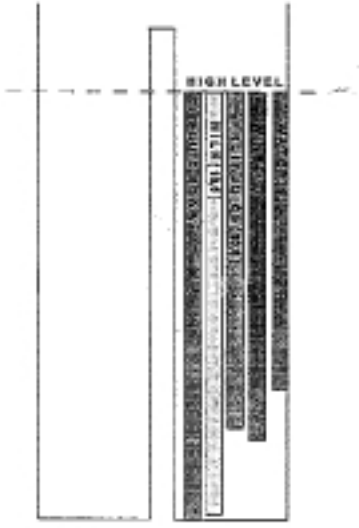

Fig 1:
Differential level in cm.
(accuracy ± 1 cm.)

On the inside of the regulator you will find three Leds for various diagnostic controls which are visible through the plastic container. The first Led, at the bottom, which is very bright, turns on when the low level has been reached.
The second Led turns on when the high level has been reached or at the same time when the relay has been activated.
The third Led, at the top, turns on in the presence of some sort of abnormality on the inside of the device. Said condition deactivates the relay and blocks the device.
NOTE. the device can be requested for emptying or filling application. in the filling mode the functins are inverted so that the motor stops once the high level has been reached.