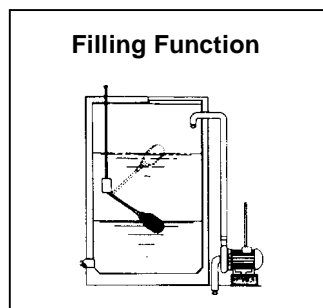
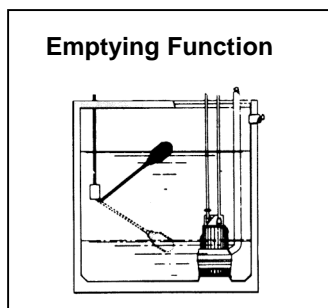
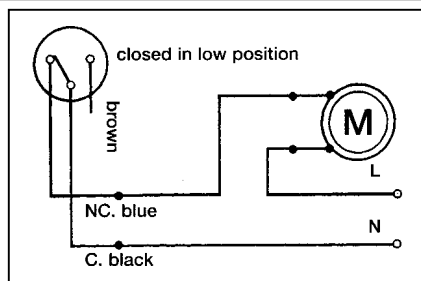
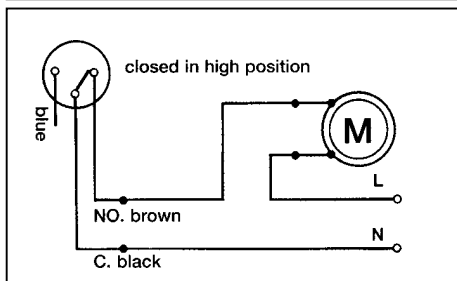


# Wiring diagrams

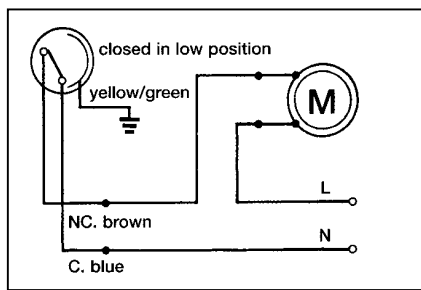
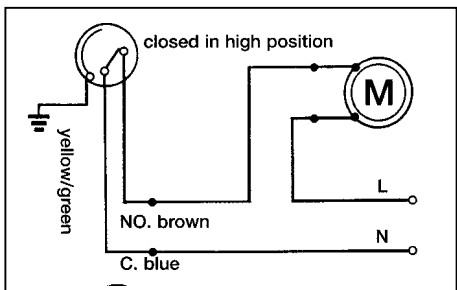
Electromechanical level regulator



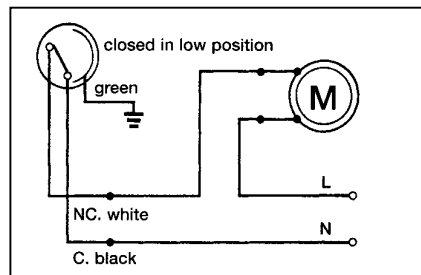
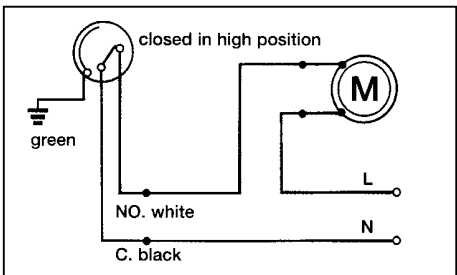
**CABLE 3 x 1**



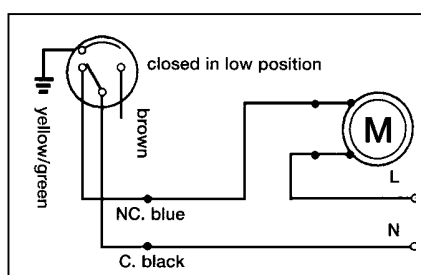
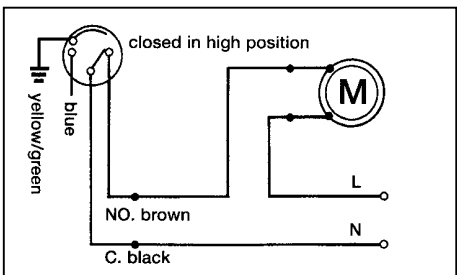
**CABLE 3G1**



**CABLE UL or CSA**



**CABLE 4G1**



Code: 309/1a

The regulators are homologated in compliance with **CEI EN 60730** standards and thereby comply with the fundamental requisites of Directive **93/68/EEC**.

The appliance combined with a pump connected by a flexible cable, permits the regulation of the level of the liquid in which it is immersed.

The regulator in fact features a float with a totally waterproof casing, inside which there is a micro-switch connected to the cable.

The float position depends on the liquid level and determines the commutation of the microswitch which in turns control the pump operation.

## **INSTALLATION**

To ensure the efficient function of the appliance it is necessary to fix the electric cable inside the tank or well as illustrated in figures no. 5 and no. 6.

The length of the cable section between the fixture point of the same and the regulator body, determines the total extension of the float and the consequent distances between the pump stopping and starting level. It is also necessary to check that the float is not obstructed during its run.

During installation joins to the level regulator cable must not be made under any circumstances. An eventual cable join section must never be immersed in water.

## **COUNTERWEIGHT INSTALLATION IF PRESENT IN THE RETAIL PACKAGING**

For correct counterweight installation refer to the following procedure as illustrated in figure no. 7.

1. Insert the cable into the counterweight, from the conic part, turning it. This will result in the detachment of the plastic ring inserted in the mouth (if necessary aid detachment by using a screwdriver). Place the ring at the point of the cable where the counterweight is to be fixed.
2. Fix the counterweight on the ring using moderate pressure and turning it. The counterweight is only provided on request.

## **ELECTRICAL CONNECTIONS**

The regulator may be used for filling or emptying according to the connections made between the terminals of the microswitch and the cable.

For correct product installation refer to wiring diagrams in figures no.1-2-3-4.

## **NOTE**

When making the connections described above ensure that the maximim motor power does not exceed the values indicated on the level regulator.

The power supply cable is an integral part of the appliance. Should the cable be found to be damaged the appliance is to be replaced. Repairs to the cable itself are not possible.

The earth wire of yellow/green colour must be connected to a suitable earth terminal and the section dimension must not be less than 1 mm<sup>2</sup>. The eventual terminal used must be effectively protected against accidental slackening.

## **ELECTRICAL FEATURES**

<b>MAXIMUM OPERATIONAL TEMPERATURE</b>	50°C
<b>PROTECTION GRADE</b>	IP68 (tested bu IMQ at a depth of 1m for a period of 7 days at water temp. of 50°C)
<b>MAC3 RELIABILITY TEST</b>	The appliances pass an immersion test at depth of 10 m, at a temperature of 50°C for a period of 7 days.
<b>POLLUTION GRADE</b>	NORMAL
<b>FEATURES OF AUTOMATIC ACTION</b>	1B (micro-disconnections in operation)

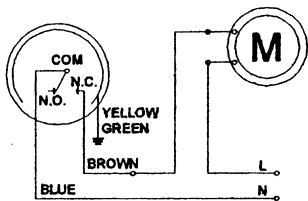


FIG.1

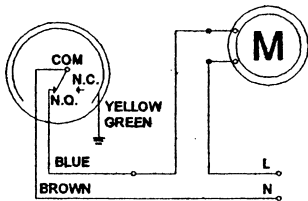


FIG.2

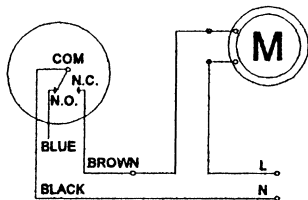


FIG.3

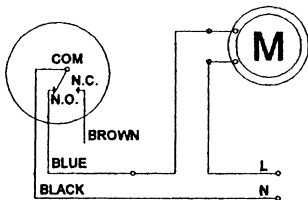


FIG.4

The wire that is not used must be correctly insulated

SVUOTAMENTO  
EMPTYNG  
VIDANGE  
LEEREN  
VACIADO  
VAZIO

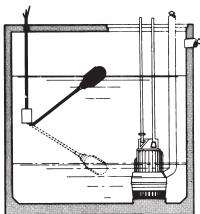


FIG.5

RIEMPIMENTO  
FILLING  
REMPLEISSAGE  
EINFÜLLEN  
LLENADO  
CHEIO

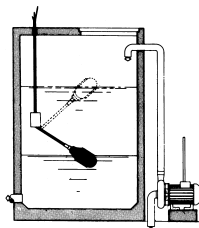


FIG.6

INSTALLAZIONE CONTRAPESO  
INSTALLATION OF COUNTERWEIGHT  
INSTALLATION CONTREPOIDS  
MONTAGE DES GEGENGEWICHTES  
INSTALACIÓN CONTRAPESO  
INSTALAÇÃO DO CONTRAPESO

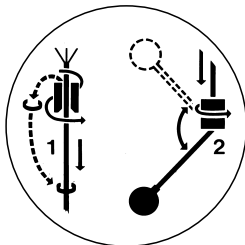


FIG.7