

DIN RAIL installation

The lever regulators for conductive liquids are devices which regulate minimum and maximum levels in deep wells, tanks, cisterns, etc.

The operating principle is based on control box detection of fluid resistance of the level being controlled by means of special probes immersed in the liquid itself, with the longest acting as the common element. When the level of the liquid inside the container or the well wets all three immersed probes, a relay is activated and subsequently de-activated only when the level goes back down, no longer covering the lower probe.



SAFETY WARNINGS

Carefully read the instruction manual before using the product as it provides important guidelines regarding safety, installation and use. The instruction manual must be preserved with care for future reference. The manufacturer reserves the right to introduce any technical and/or constructive changes deemed necessary, with no prior notice.



The installation and electrical connection of the device must be implemented only by a qualified electrician and in conformity with current laws and regulations.



The manufacturer disclaims all responsibility for any product use which does not comply with related environmental and/or installation norms.



Disconnect the control panel electrical current before any device operation.

NOTES REGARDING USE

If the device is used in the filling function, the system must be equipped with an adequate too full.

TECHNICAL FEATURES

Supply voltage:	model: 230 V~ 50-60 Hz model: 24 V~ 50-60 Hz
Electrode voltages:	12 V~
Relay output:	N° 1 5A / 250V~
Adjustable sensitivity:	0 ÷ 100 kOhm
Insulation resistance:	> 10 M ohm
Dielectric strength:	2000V
Life:	10 years
Max connection length (between device and probes):	approx. 70 ÷ 80 m
Dimensions:	2 DIN (37 x 95 x 58 mm)



Series E (evolved)

Supply voltage:	230V~ 50-60 Hz
model 2 DIN:	24/117/230V~ 50-60 Hz
model 3 DIN multi-voltage:	12 Vpp \square \square \square
Electrode voltages:	
Relay output	
model 2 DIN:	n° 1 (5A / 250V~)
model 3 DIN multi-voltage	n° 1 (5A / 250V~) n° 2 (2A / 250V~)
Adjustable sensitivity:	0 ÷ 100 kOhm
Intervention relay activation delay:	0 ÷ 16 s
Intervention mode:	Filling / Emptying
Insulation resistance:	> 10 M ohm
Dielectric strength:	2000V
Max connection length (between device and probes):	approx. 1000 m
Life:	10 years
Dimensions:	2 DIN (37 x 95 x 58 mm) 3 DIN (53 x 95 x 58 mm)



In the case of wells with diameters up to 10 cm, position the probes so that there are no more than 2 m between the lowest and highest probes (sufficient for pump protection). The probes can be set at a further distance for wells with larger diameters. There are no limits for tanks. These models regulate liquids well for a resistance of up to 100 kOhm the use of these regulators allows extraordinary operating safety, as they are only slightly sensitive to the conditions of humidity generally found in wells and tanks.

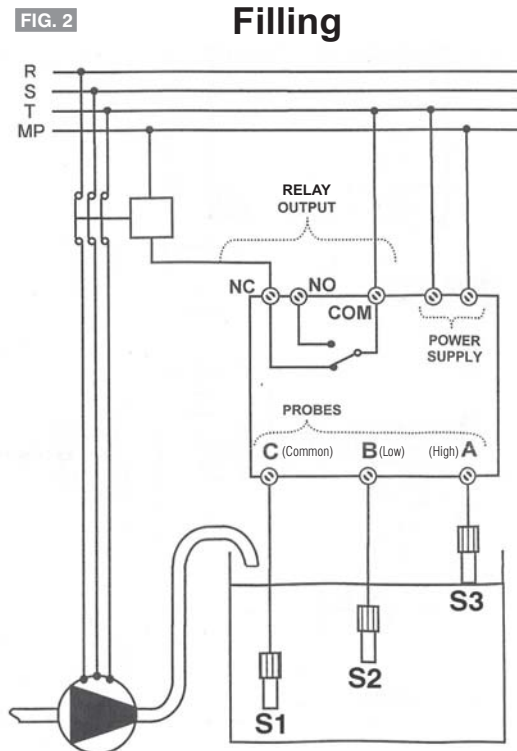
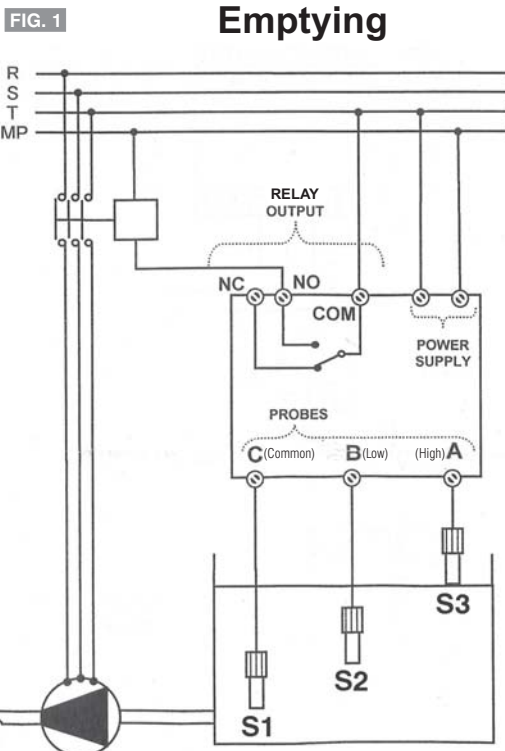
Aside from the above described performances, Series E (evolved) models also permit:

- setting of a delayed relay activation time from 0 ÷ 16s;
- selection of the relay intervention mode (Filling/Emptying)
- Relay output with 2 change-over contacts in 3 DIN module version.

ALL MODELS ARE TROPICALISED, meaning they have been treated for continuous operation in conditions of elevated humidity and temperature.

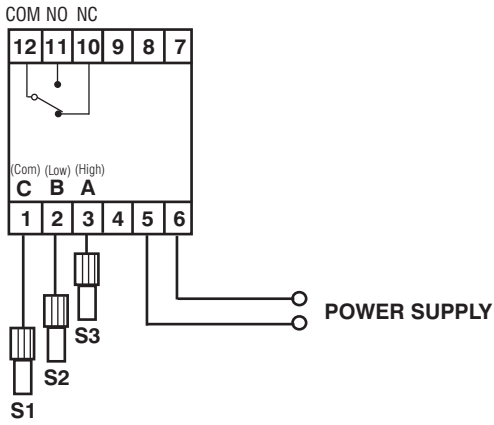
Application diagrams relative to the emptying and filling functions are shown, respectively, in Fig. 1 and Fig. 2.

Connection diagrams for the various models are shown in Fig. 3 - 4.



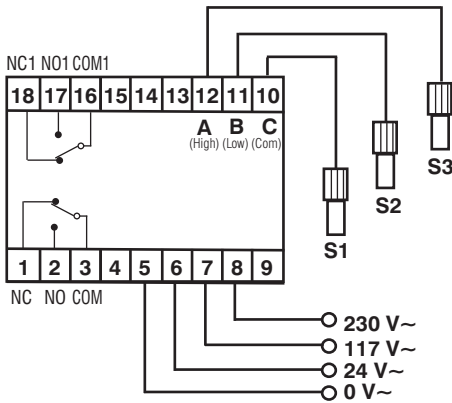
ELECTRICAL CONNECTION DIAGRAMS

FIG. 3



2 DIN

FIG. 4



3 DIN



DISPOSAL OF ELECTRICAL & ELECTRONIC EQUIPMENT

This symbol on the product or its packaging to indicates that this product shall not be treated as household waste.

Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment, such as for example:

- sales points, in case you buy a new and similar product;
- local collection points (waste collection centre, local recycling center, etc...).

By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The recycling of materials will help to conserve natural resources.

For more detailed information about recycling of this product, please contact your local city office, your house hold waste disposal service or the shop where you purchased the product.