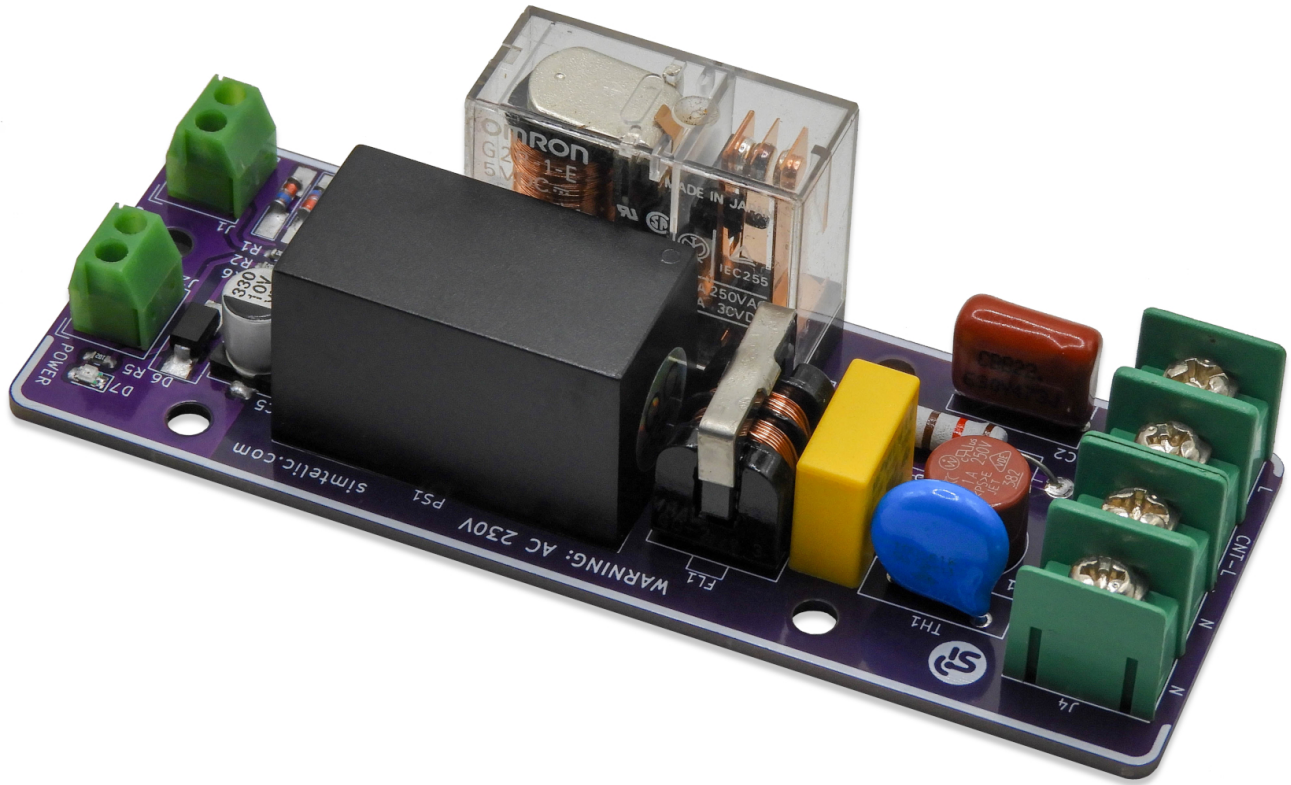


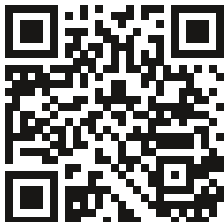
Simtelic



Fluid Level Control Module

Thank you for purchasing this Simtelic module.

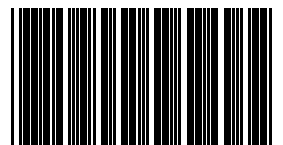
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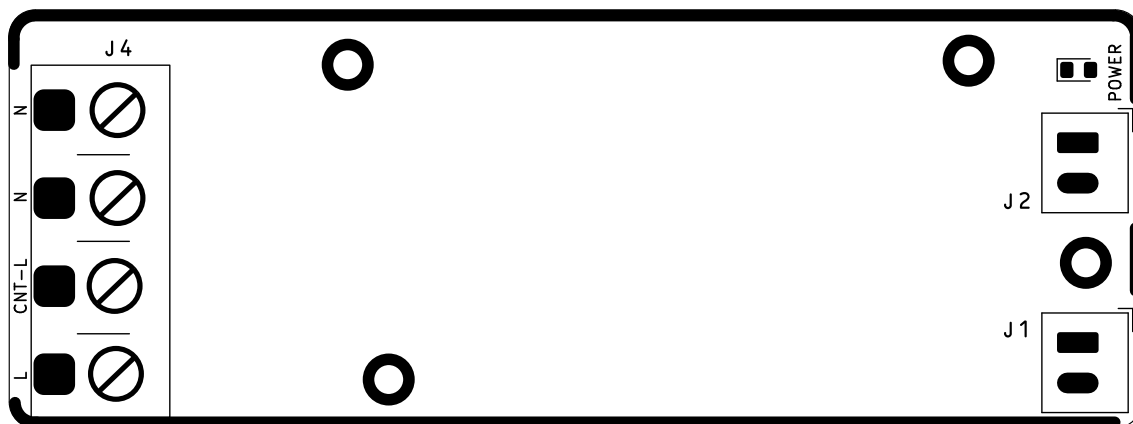
Introduction

The fluid level controller module is designed to provide reliable and precise liquid level management for your tanks. This module utilizes two limit switch inputs to monitor your tank's liquid level. Based on these inputs, the module intelligently controls a relay, ensuring your tank remains filled within a desired range. The integrated microprocessor plays a crucial role in this process. It eliminates switch bounce and implements hysteresis, a functionality that prevents rapid relay cycling due to minor fluctuations in the fluid level. This ensures stable and reliable operation, protecting your equipment and optimizing fluid usage.

- **Automated Fluid Level Control:** Eliminate the need for manual monitoring and refilling, saving time and effort.
- **Hysteresis Control:** Prevent unnecessary relay activation caused by minor fluid level variations.
- **Enhanced System Stability:** Experience reliable and consistent operation with minimal relay cycling.

Identify connectors and indicators

Top Side



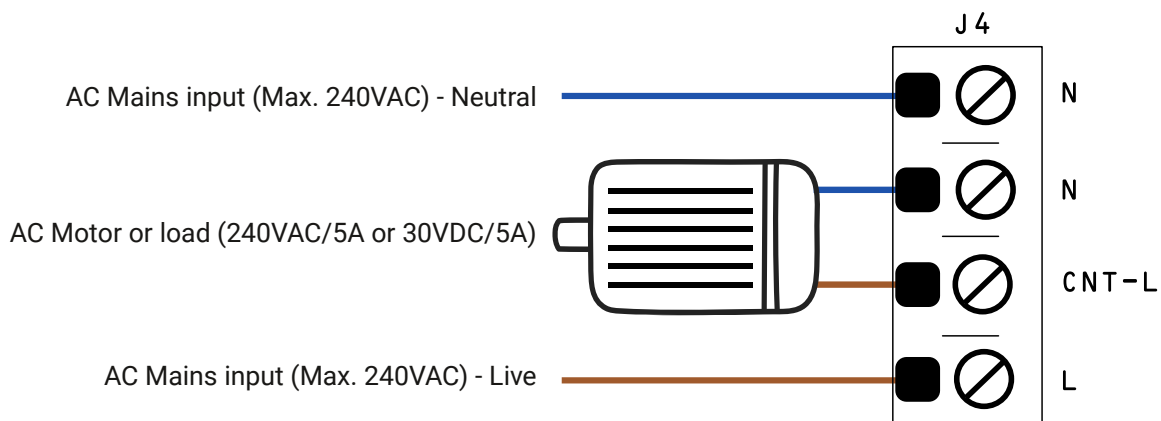
EL0006

J1 - Limit switch connector for the upper level. The limit switch should be open when floating with liquid and closed if the liquid level is below the switch level. (This type of limit switch is also known as a normal-close type.)

J2 - Limit switch connector for the lower level. The limit switch should be open when floating with liquid and closed if the liquid level is below the switch level. (This type of limit switch is also known as a normal-close type.)

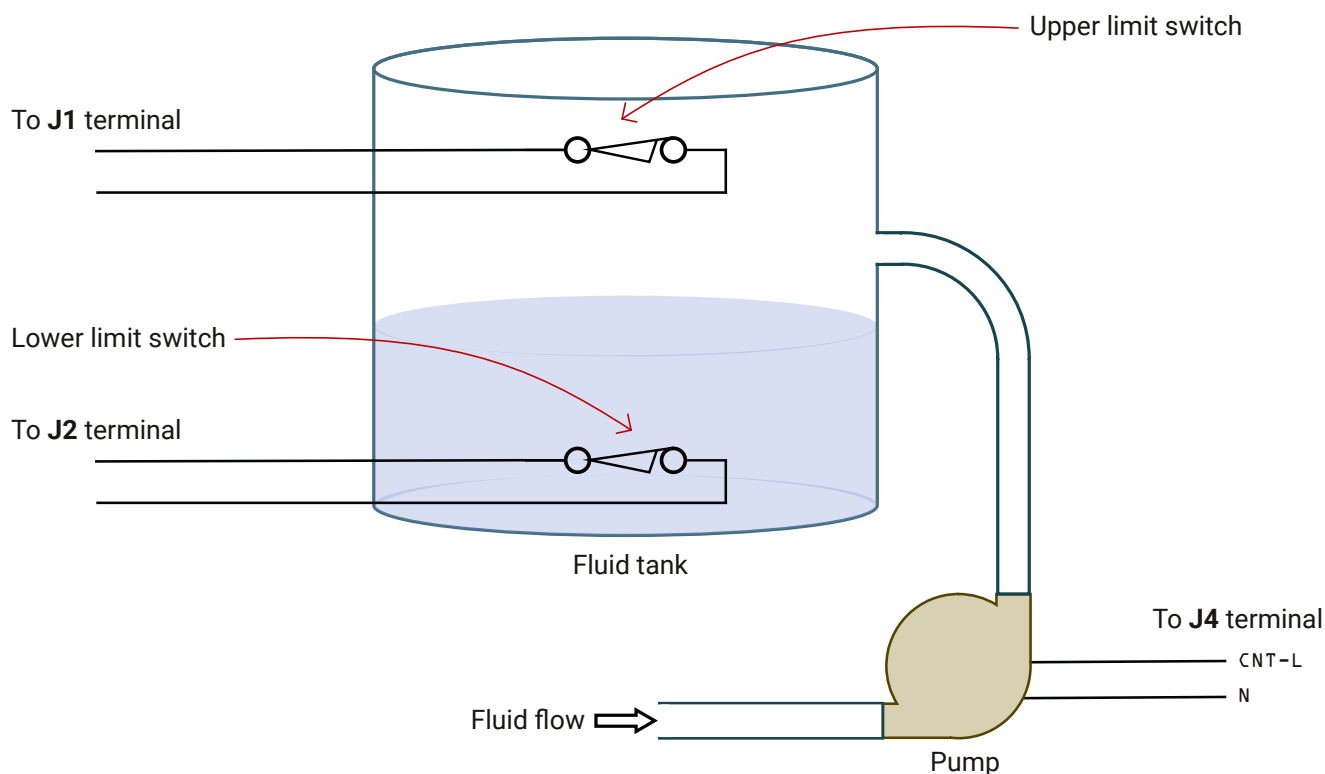
POWER - Power indicator.

J4 - AC mains interface. This terminal is equipped with pins to supply AC mains power to the system as well as relay input/output pins.



Initial setup and configurations

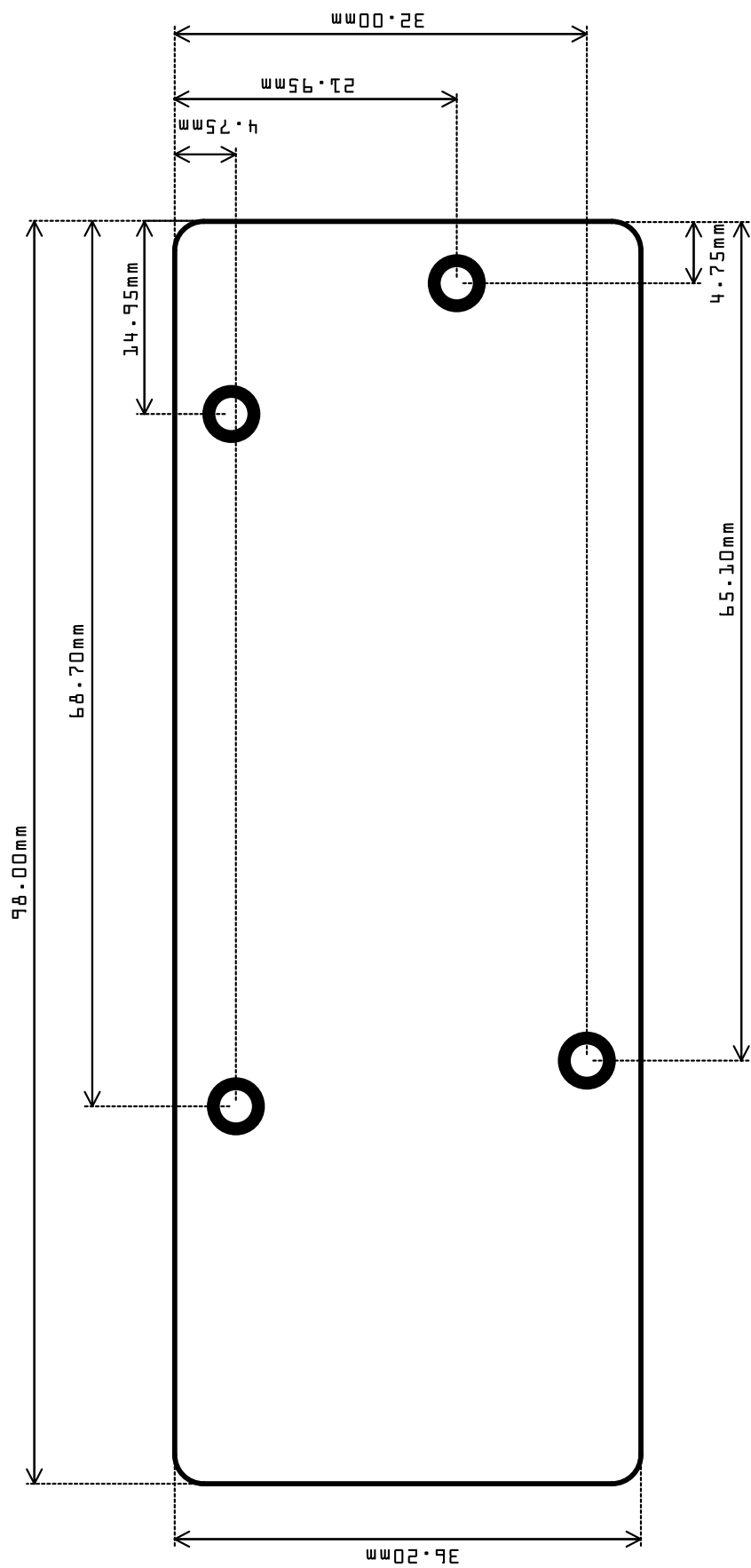
The illustrations below depict potential connection layouts for the fluid-level controller module. The onboard relay can handle loads of up to 5A at 240V (AC) or 5A at 30V (DC). To connect high-power loads greater than these specifications, use a contactor or a high-current-rated relay.



If this module is mounted outside, please ensure that it is placed in a waterproof and dustproof enclosure. Moisture and dust from the outside can harm electronic components and the printed circuit board (PCB). It is also recommended to apply a protective paint or conformal coating to the PCB to shield the board and its components from the environment and prevent corrosion.

Module specification

1. Dimensions of the module (width × height)..... 98.0mm × 36.2mm
2. Weight..... 59.9g (± 0.2g)
3. Average power consumption (without load)..... < 0.15Wh
4. Working voltage..... 230V AC
5. Maximum allowed DC voltage / current..... 30V / 5A
6. Maximum allowed AC voltage / current..... 240V / 5A



**Simtelic (Pvt) Ltd. cannot be held responsible in the event of damage or injury resulting from
(incorrect) use of this module.**

The continuous improvement of its products is the policy of Simtelic (Pvt) Ltd. who reserve the right
to improve design without notice.

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