SIVI02 and SIVI03 Liquid Level Relay User Manual

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V.25.1

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PROPER USE and SAFETY REQUIREMENTS

Cut all the power when connecting and disconnecting the device to a panel.

Do not clean the device with a solvent or similar material. Only use a dry cloth.

Please do not intervene to the device when a technical problem is encountered and get in contact with a technical service within the shortest time.

If the warnings are not taken into account, our company or the authorized dealer shall not be held responsible for the negative consequences.

Do not dispose in the trash, the device must be delivered to the collection centers (electronic device recycling centers). It should be recycled or disposed of without harming human health and environment.

The installation, assembly, activation and operation of the device hould be done and used by only expert professionals and in accordance with safety regulations and instructions.

1.INTRODUCTION

1.1. General Features

SIVI02 and SIVI03 Liquid Level Relays are mainly designed to sensitively monitor and control the conductive liquid level in iron steam boilers. SIVI02 Liquid Level Relay has a tank control output unlike SIVI03 Liquid Level Relay.

1.2. Usage and Operating Principle

Make the device connections according to the connection diagram.

- In SIVI02 Liquid Level Relay; If the liquid level in the tank is above the level where the tank electrode (DEPO) is located, the relay will give output to the motor and it will start filling the boiler. If the DEPO electrode is below the liquid level, the motor output will be deactivated with a delay.

- In SIVI02-SIVI03 Liquid Level Relays; When the liquid level in the boiler reaches the boiler electrode (KZN), the relay will stop giving output to the motor and stop the motor. If the boiler electrode is below the liquid level, the motor output will be activated with a delay.

- In SIVI02-SIVI03 Liquid Level Relays; As long as the liquid level in the boiler is above the resistance electrode, the relay will operate by outputting the resistance and vaporize the liquid. When the liquid in the boiler is below the resistance electrode, the resistance output will be deactivated with a delay and will give output to the lamp (BOŞ) indicating that there is no water.

If the tank, container or reservoir is made of conductive material, there is no need to use the base (TBN) electrode. In this case, the common electrode of the relay can be connected directly to the tank, container or reservoir.

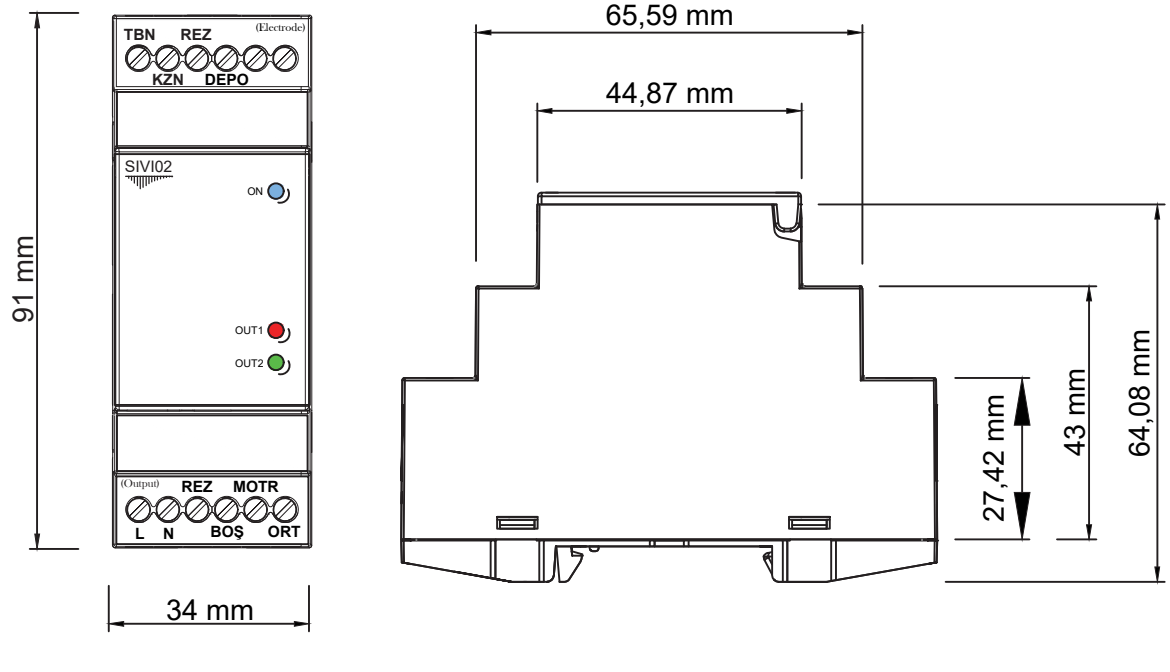
Note: Liquid Level Relay is not used in flammable liquids.

1.3. Technical Features

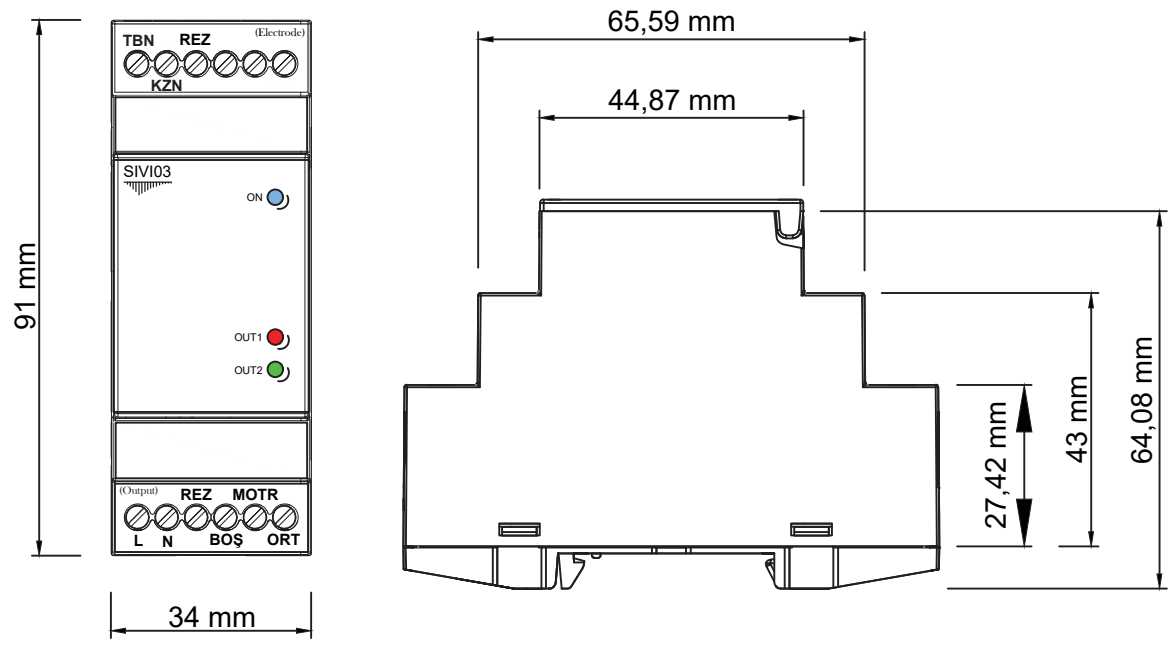
- **Operating Voltage :** 190 – 260 V AC
- **Operating Frequency :** 50/60 Hz
- **Power Consumption :** < 3 VA
- **Indicator:** 3 x LED
- **Connection Type :** Terminal Connection
- **Sensitivity Adjustment :** 15kΩ Fixed
- **Operating Temperature :** -5 °C / +55 °C
- **Protection Class :** IP20
- **Cable Diameter :** 2,5mm²
- **Weight / Dimensions :** 0,180 kg / 34 x 91 x 64 mm
- **Mounting :** DIN Rail
- **Output Contacts :** NO – 5A@250V AC
  NC – 2A@250V AC

1.4. Technical Drawing

1.4.1. SIVI02 Technical Drawing

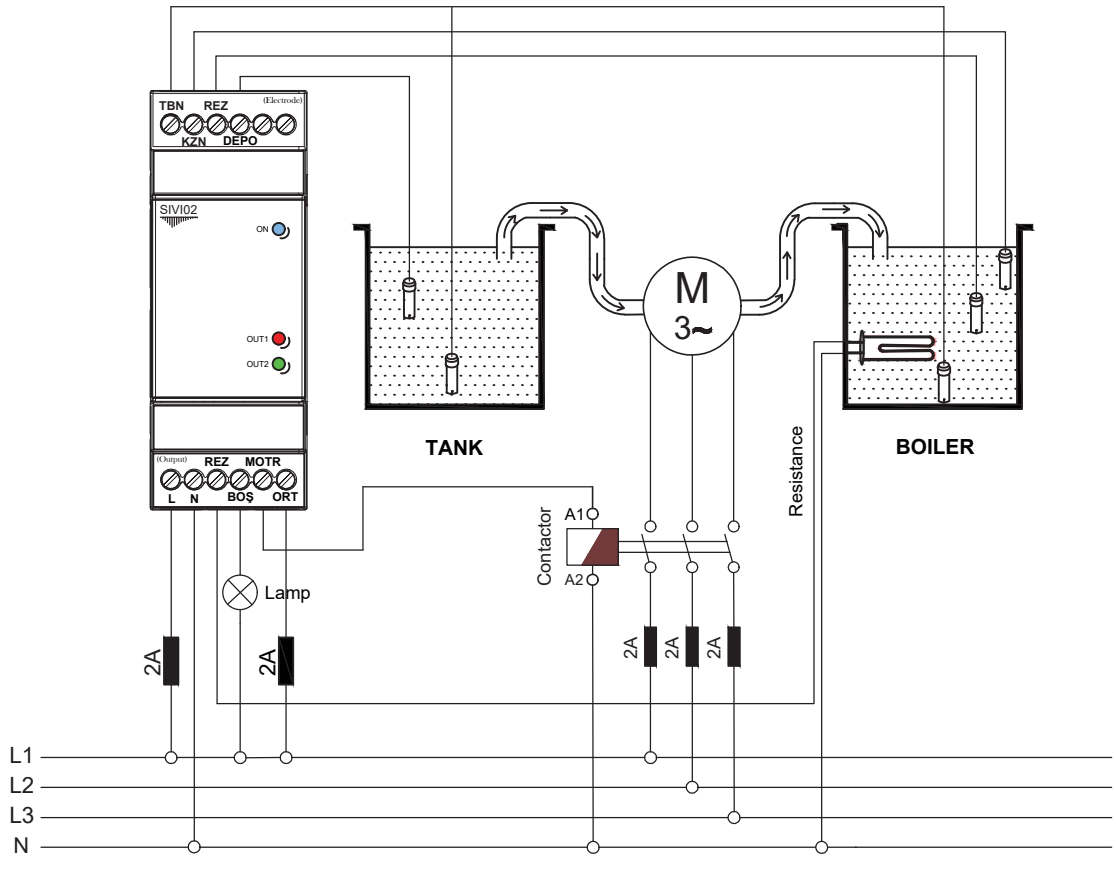


1.4.2. SIVI03 Technical Drawing



1.5. Connection Diagram

1.5.1. SIVI02 Connection Diagram



1.5.2. SIVI03 Connection Diagram