# Smart Condensation Relay

## SCR Series

SCR 1

aktif
ELEKTROTEKNİK

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### Smart Condensation Relay

The SCR 1 is an intelligent condensation relay designed to regulate heaters using its advanced predictive algorithm. It actively monitors both temperature and humidity to optimize energy consumption by preventing the heater from remaining on unnecessarily. Additionally, the optional Modbus RTU communication enables remote control of the heaters and real-time monitoring of critical parameters such as temperature, relative humidity, and heater operation status.

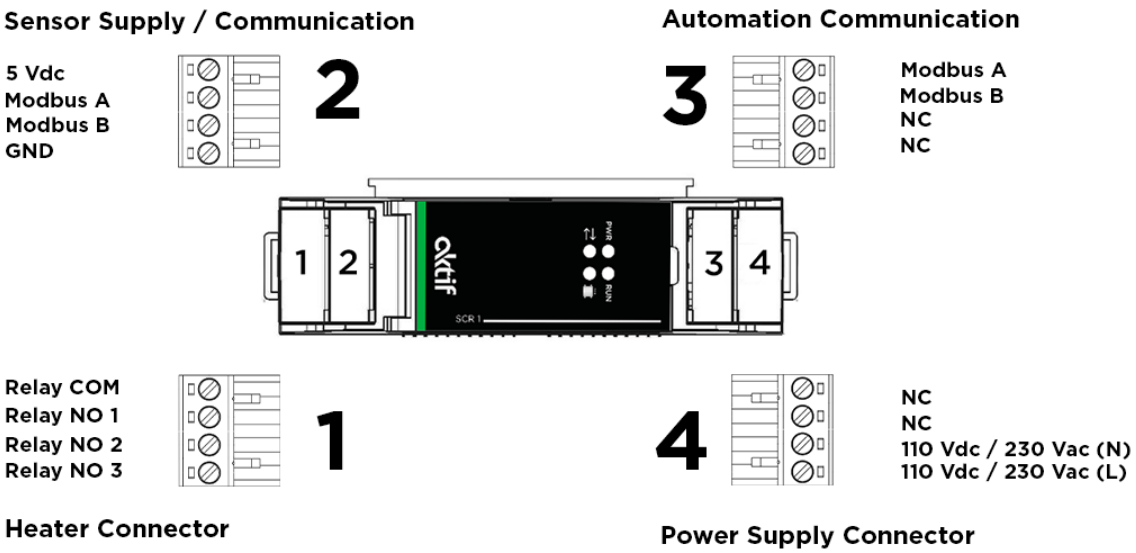
### Technical Specifications

- Supply Voltage : 70 - 255 Vac
  100 - 360 Vdc
  20 - 36 Vdc
  (Specified in the Order)
- Frequency : 50/60 Hz
- Contact Power : Up to 0,8 kW
- Communications : Modbus RTU (Optional)
- Temperature Measurement Range : -40 °C / + 125 °C (Accuracy ±0.2°C)
- Humidity Measurement Range : 0 - 100 %RH (Accuracy ±2%)
- Contact Type : Change-over contact (relay)
- Indicators : Power, run, com., heater
- Enclosure : Plastic according to UL94 V-0
- Mounting Type for Main Unit : DIN Rail
- Mounting Type for Sensor Unit : Wall-mounted
- Dimensions for Main Unit : 114,4 x 107,3 x 35,3 mm
- Dimensions for Sensor Unit : 61 x 86 x 32 mm

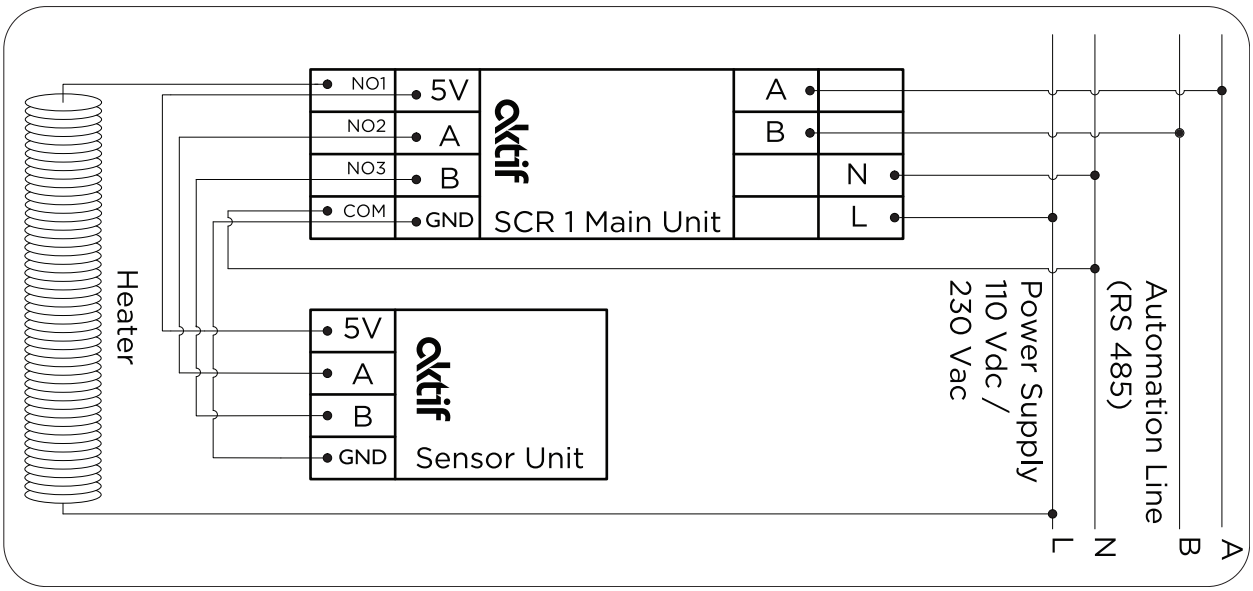
### Advantages

- Smart predictive control principle
- Relative humidity & temperature measurement
- No settings required
- Prevents personnel mistakes
- Efficient thanks to predictive variable time working and duty cycle
- Remote monitoring and control via Modbus RTU (optional)

## Terminals




## Wiring Diagram



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