

# Smart Condensation Relay



SCR Series  
SCR 1

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## SCR Series

### Smart Condensation Relay

The SCR1 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	:120,6 x 107,3 x 35,3 mm
• Dimensions for Sensor Unit	:100 x 34 x 54,5 mm
• Main Unit IP Protection Degree	:IP20
• Sensor Unit IP Protection Degree	:IP40

### Advantages

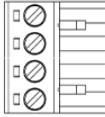
- Smart predictive control principle
- Relative humidity & temperature measurement
- No settings required
- Prevents personnel mistakes
- Efficient thanks to predictive variable time working and duty cycle
- Remote monitoring and control via Modbus RTU (optional)



## Terminals

### Sensor Supply / Communication

5 Vdc  
Modbus A  
Modbus B  
GND



**2**

### Automation Communication

Modbus A  
Modbus B  
NC  
NC



**3**



Relay COM  
Relay NO 1  
Relay NO 2  
Relay NO 3



**1**

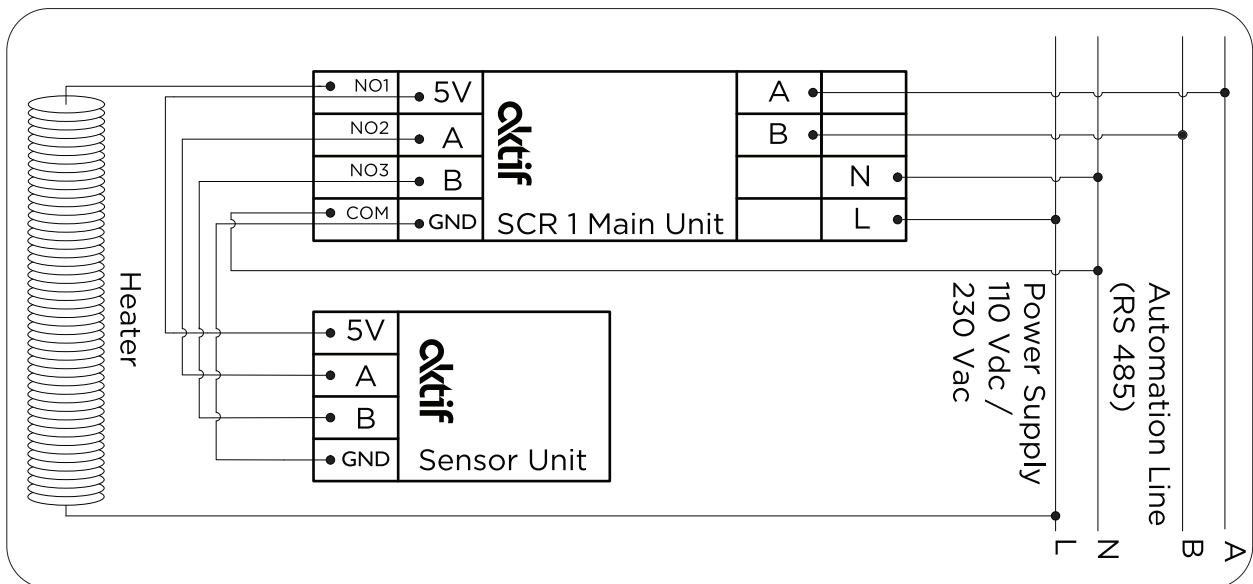
**4**

NC  
NC  
110 Vdc / 230 Vac (N)  
110 Vdc / 230 Vac (L)

### Heater Connector

### Power Supply Connector

## Wiring Diagram





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