The Series SC1090 Thermocouple Limit/Alarm Switch Modules are on-off or limit switches with selectable process signal. Input type, scale range, output action, and output type are all selectable by the user in the field. All selections are made through easily accessible switches without the need to open the product. Each unit has two form C (SPDT) relays which can operate independently, or be logically connected to operate as a DPDT output. A two color LED indicator indicates the status of each output relay. These units mount easily on a standard 35 mm DIN rail. Low Voltage (SCL XXXX) units are also available.

### SPECIFICATIONS

- **Input:** 4 to 20 mA, 10 to 50 mA, 0 to 20 mA, 0 to 10 V, -10 to 10 mV.
- **Power Supply:** (SC units) 85 to 265 VDC/VAC 50 to 400 Hz (12-24 VDC, VAC 50-400 Hz for low voltage option, SCL units).
- **Isolation:** 1500 Vrms between outputs, inputs, and power.
- **Set Points:** Adjustable 0 to 100% of span.
- **Deadband:** Adjustable 0.25% to 100% of span.
- **Drift:** ±0.02%/°C typical ±0.05%/°C maximum.
- **Ambient Temperature Range:** Operating: 32 to 131°F (0 to 55°C); Storage: -40 to 176°F (-40 to 80°C).
- **Input Impedance:** (SC1490) Cu10Ω = 5mA; Ptl 100Ω, Ni 100Ω, Ni 120Ω = 500µA; Ptl 500Ω, NiFe 1000Ω = 100 µA; Plt 1000Ω = 50 µA.
- **Lead Compensation Error:** (SC1490) = 0.02%/Ω.
- **Open Lead Protection:** (SC1490) upscale only.
- **Input Impedance:** (1290) 3 MΩ.
- **Sensor Burnout Protection:** Selectable, upscale or downscale on SC1490. Sensors have 5A relay output at 250 VAC, resistive.
- **Latch Circuit Reset:** Automatic at power up. Manual with reset switch on front of module.
- **Indicators:** One dual color LED per set point. Red = relay on, green = relay off.
- **Wiring Terminals:** Screw driven compression type.

### Series

**SC1090**

- **Model:** SC1090, SCL1090*
- **Power Supply:** 12 to 24 VDC/VAC, 12 to 24 VDC/VAC
- **Price:** $199.00

**SCL1090**

- **Power Supply:** 12 to 24 VDC/VAC
- **Price:** $199.00

* Low Voltage Supply

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**SC1290 & SC1490**

- **Model:** SC1290, SCL1290*, SC1490, SCL1490*
- **Power Supply:** 12 to 24 VDC/VAC
- **Price:** $199.00

* Low voltage supply

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**Annunciator/Alarm Modules**

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