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 mA.
- **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 V rms between outputs, input, 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) 3 MΩ.
- **Open Lead Protection:** (SC1490) ≈ 0.02%/Ω.
- **Lead Compensation Error:** (SC1490) Cu10Ω = 5mA; Pt 100Ω, Ni 100Ω, Ni 120Ω = 500µA; Pt 500Ω, NiFe 1000Ω = 100 µA; Pt 1000Ω = 50 µA.
- **Excitation Current:** (SC1490) Cu10Ω = 5mA; Pt 100Ω, Ni 100Ω, Ni 120Ω = 500µA; Pt 500Ω, NiFe 1000Ω = 100 µA; Pt 1000Ω = 50 µA.
- **Sensor Burnout Protection:** Selectable, upscale or downscale on front of module.
- **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.

### Model and Description

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* Low voltage supply