**Process/Alarm Switch Module**

**Two Form C (SPDT) Switches, Small Size, Mounts Easily on 35 mm DIN Rail**

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 35mm DIN rail. Low Voltage (SCL XXXX) units are also available.

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC1090*</td>
<td>85 to 265 VDC/VAC</td>
</tr>
<tr>
<td>SCL1090*</td>
<td>12 to 24 VDC/VAC</td>
</tr>
</tbody>
</table>

* Low Voltage Supply

**Thermocouple & RTD Limit/Alarm Switch Module**

**Two Form C (SPDT) Switches, Small Size, Mounts Easily on 35 mm DIN Rail**

The Series SC1290 & SC1490 Thermocouple Limit/Alarm Switch Modules are on-off or limit switches with selectable, thermocouple, or RTD inputs. 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 35mm DIN rail. Low Voltage (SCL XXXX) units are also available.

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<td>SC1490</td>
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<td>SCL1290*</td>
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<td>RTD Input</td>
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* Low voltage supply

**SPECIFICATIONS**

**Input:**
- 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: 1500V rms between outputs, input, and power.
- Deadband: Adjustable 0 to 100% of span.
- Drift: ±0.02%/°C typical ±0.05%/°C maximum.
- Temperature Limits: Ambient (operating) 32 to 131°F (0 to 55°C), (storage) -40 to +176°F (-40 to +80°C).

**Ambient Temperature Range:**
- Operating: 32 to 131°F (0 to 55°C);
- Storage: -40 to 176°F (-40 to 80°C).
- Input Impedance: (1290) voltage input = 1 MΩ, current input = 10 µA;
- Sensor Burnout Protection: Selectable.
- Open Lead Protection: (SC1490) upscale only.
- Lead Compensation Error: (SC1490) 0.02%/Ω.
- Wiring Terminals: Screw driven compression type.

**Excitation Current:** (SC1490) Cu10Ω = 5mA; Pt100Ω, Ni100Ω, Ni120Ω = 500µA; Pt500Ω, NiFe1000Ω = 100 µA; Pt1000Ω = 50 µA.

**Sensor Burnout Protection:**
- Selectable, upscale or downscale on SC1290.
- Relay Output: Form C, SPDT, one per point, 5A @ 250 VAC, resistive.
- Indicators: One dual color LED per set point. Red = relay on, green = relay off.

**Input Impedance:** (1290) voltage input = 3 MΩ. (1090) voltage input = 10 MΩ.

**Open Lead Protection:** (SC1490) upscale only.

**Lead Compensation Error:** (SC1490) = 0.02%/Ω.

**Wiring Terminals:** Screw driven compression type.

**Contact Us**

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