The Series SC1090 Thermocouple Limit/Alarm Switch Modules are on-off or limit switches with selectable output type. Input type, scale range, output action, and output type are all selectable by the user in the field. 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.

The Series SC1290 & SC1490 Thermocouple Limit/Alarm Switch Modules are on-off or limit switches with selectable output type. Input type, scale range, output action, and output type are all selectable by the user in the field. 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.

### Model and Specification Table

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Input</th>
<th>Excitation Current</th>
<th>Lead Compensation Error</th>
<th>Open Lead Protection</th>
<th>Sensor Burnout Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC1290</td>
<td>T/C Input</td>
<td>SC1290: Thermocouple type J, K, R, S, T, E; SC1490: RTD Pt1000, Ni100, Ni120, Cu10, Ni-Fe1000, Ni-Fe2000.</td>
<td>(SC1490) Cu10Ω × 5mΩ; Pt100Ω × 500µΩ; NiFe1000Ω × 100µΩ</td>
<td>SC1490 = 0.02%/Ω</td>
<td>(SC1490) upscale only.</td>
<td>Selectable.</td>
</tr>
<tr>
<td>SC1490</td>
<td>RTD Input</td>
<td>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).</td>
<td>Input Impedance: (SC) ≈ 3 MΩ, current input = 10 Ω.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCL1290</td>
<td>T/C Input</td>
<td>Isolation: 1500 VAC rms between outputs, input, and power.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCL1490</td>
<td>RTD Input</td>
<td>Set Points: Adjustable 0 to 100% of span.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCL1490*</td>
<td>Voltage Input</td>
<td>Drift: ±0.02%/°C typical ±0.05%/°C maximum.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Temperature Limits: Ambient: (operating) 32 to 131°F (0 to 55°C). (storage) -40 to +176°F (-40 to +80°C).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Additional Information

- **Low Voltage Supply**
  - Voltage Input: RTD Input, T/C Input
  - Power Supply: 85 to 265 VDC/VAC, 12 to 24 VDC/VAC
  - Isolation: 1500 V rms between outputs, input, and power.
  - Set Points: 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).

- **Contact Information**
  - U.S. 219/879-8000
  - U.K. (+44) (0)1494-461707
  - A.U. (+61) (0) 2 4272 2055
  - China +852-23181007

- **Dimensions**
  - All dimensions in inches (millimeters)
  - DIN EN 50022-35 (NOT SUPPLIED)

- **Adaptor Bracket**
  - For surface mounting (optional)
  - Kit#: 1007-35DINADPTR