The Series SC1090 Limit/Alarm Switch Modules can be used as off-or limit switches with field selectable inputs. Input type can be any process signal, thermocouple, or RTD based on the model. Input type, scale range, and output type selection are made through easily accessible jumpers. Input type can be acknowledged, reset, or silenced either via the front panel push buttons or the rear reset switch. The integral 24 VDC power supply is provided on a standard 35 mm DIN rail. Low Voltage (SCLXXXX) units are also available. Low Voltage models: 12 to 24 VDC/VAC, 50 to 400 Hz; SC models: 85 to 265 VDC/VAC, 50 to 65 Hz. Temperature Limits: -40 to 149°F (-40 to 65°C). Input Impedance: 5 kΩ; Pt 100Ω = 50 µA.

### Power Supply
- SC models: 85 to 265 VDC/VAC, 50 to 400 Hz
- SC models: 12 to 24 VDC/VAC, 50 to 65 Hz

### Isolation:
- 1500 V rms between outputs, input, and power.
- Isolation: ±0.02%/°C typical ±0.05%/°C maximum.

### Drift:
- ±0.02%/°C typical ±0.05%/°C maximum.

### Temperature Limits:
- -40 to 149°F (-40 to 65°C).

### Relay Output:
- Form C, SPDT, one per set point, 5A @ 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 spring type.

### Sensor Burnout Protection:
- Selectable.

### Anthropometric Dimensions:
- Refer to Table.

### Specifications
- Input: See Table.

### Power Supply:
- SC models: 85 to 265 VDC/VAC, 50 to 400 Hz
- SC models: 12 to 24 VDC/VAC, 50 to 65 Hz

### 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).

### Excitation Current:
- (SC1490) Cu10Ω = 0.02%/Ω.

### Lead Compensation Error:
- (SC1490) ≈ 0.02%/Ω.

### Open Lead Protection:
- (SC1490) upscale only.

### 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.

### Anthropometric Dimensions:
- Refer to Table.

### Specifications
- Input: See Table.

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