

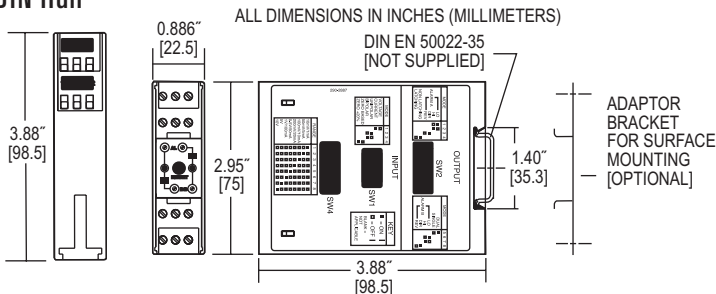
**Dwyer****SERIES SC1**

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**MOD-TRONIC**

# PROCESS/TEMPERATURE ALARM SWITCH MODULE

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



The **Series SC1 Process/Temperature Alarm Switch Module** is an on-off or limit switch with selectable process signal. Each unit has two form C (SPDT) relays which can operate independently, or be logically connected to operate as a DPDT output.

## FEATURES/BENEFITS

- Accepts current, voltage, thermocouple, or RTD inputs
- Mounts on standard 35 mm DIN rail
- Two color LED indicator to indicate the status of each output relay
- Programmable input type, scale range, output action, and output type

## APPLICATIONS

- Stand alone CO monitoring in parking garage
- Industrial processing equipment

## SPECIFICATIONS

**Input:** See table.  
**Power Supply:** SC models: 85-265 VDC/VAC, 50 to 400 Hz; SCL models: 12-24 VDC/VAC, 50 to 400 Hz.  
**Isolation:** 1500V rms between outputs, input, and power.  
**Set Points:** Adjustable 0 to 100% of span.  
**Deadband:** Adjustable 0.25% to 100% of span.  
**Drift:**  $\pm 0.02\%/^{\circ}\text{C}$  typical  $\pm 0.05\%/^{\circ}\text{C}$  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) Cu10  $\Omega$  = 5 mA; Pt1 100  $\Omega$ , Ni 100  $\Omega$ , Ni 120  $\Omega$  = 500  $\mu\text{A}$ ; Pt1 500  $\Omega$ , NiFe 1000  $\Omega$  = 100  $\mu\text{A}$ ; Pt1 1000  $\Omega$  = 50  $\mu\text{A}$ .

**Lead Compensation Error:** (SC1490)  $\approx 0.02\%/^{\circ}\text{C}$ .  
**Open Lead Protection:** (SC1490) upscale only.  
**Input Impedance:** SC1090: Voltage input = 1 M $\Omega$ , current input = 10  $\Omega$ ; SC1290: 3 M $\Omega$ .  
**Sensor Burnout Protection:** Selectable.  
**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 compression type.

## MODEL CHART

Model	Description	Power Supply
<b>SC1090</b>	4-20 mA, 10-50 mA, 0-20 mA, 0-10 V, -10-10 mV	85-265 VDC/VAC
<b>SC1290</b>	Thermocouple type J, K, R, S, T, E RTD Pt1000	85-265 VDC/VAC
<b>SC1490</b>	Ni100, Ni120, Cu10, Ni-Fe1000, Ni-Fe2000	85-265 VDC/VAC
<b>SCL1090</b>	4-20 mA, 10-50 mA, 0-20 mA, 0-10 V, -10 to 10 mV	12-24 VDC/VAC
<b>SCL1290</b>	Thermocouple type J, K, R, S, T, E	12-24 VDC/VAC
<b>SCL1490</b>	RTD Pt1000 Ni100, Ni120, Cu10, Ni-Fe1000, Ni-Fe2000	12-24 VDC/VAC

## ACCESSORIES

Model	Description
<b>A-360</b>	Aluminum DIN rail 1 m