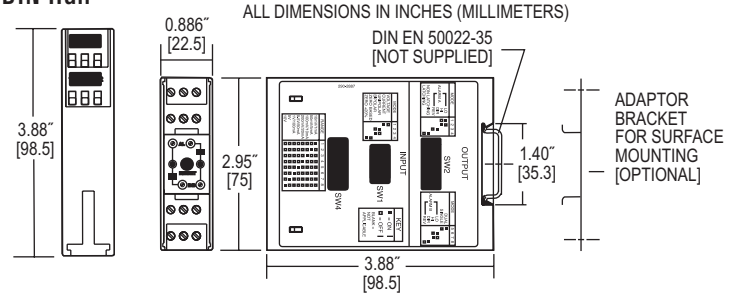


Dwyer

SERIES SC1

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

MODEL CHART

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

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 Ω = 5 mA; Pt1 100 Ω , Ni 100 Ω , Ni 120 Ω = 500 μA ; Pt 500 Ω , NiFe 1000 Ω = 100 μA ; Pt 1000 Ω = 50 μA .

Lead Compensation Error: (SC1490) $\approx 0.02\%/^{\circ}\text{C}$.

Open Lead Protection: (SC1490) upscale only.

Input Impedance: SC1090: Voltage input = 1 M Ω , current input = 10 Ω ; SC1290: 3 M Ω .

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.

ACCESSORIES

Model	Description
A-360	Aluminum DIN rail 1 m