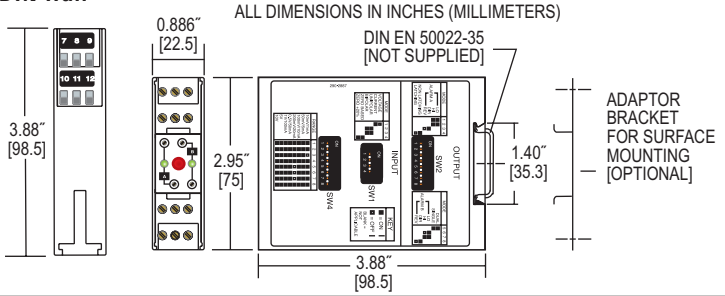
SERIES SC1

PROCESS/TEMPERATURE ALARM SWITCH MODULE

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



The **SERIES SC1** Limit/Alarm Switch Modules are on-off or limit switches 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 to 20 mA, 10 to 50 mA, 0 to 20 mA, 0 to 10 V, -10 to 10 mV	85 to 265 VDC/VAC
SC1290	Thermocouple type J, K, R, S, T, E	85 to 265 VDC/VAC
SC1490	RTD Pt1000 Ni100, Ni120, Cu10, Ni-Fe1000, Ni-Fe2000	85 to 265 VDC/VAC
SCL1090	4 to 20 mA, 10 to 50 mA, 0 to 20 mA, 0 to 10 V, -10 to 10 mV	12 to 24 VDC/VAC
SCL1290	Thermocouple type J, K, R, S, T, E	12 to 24 VDC/VAC
SCL1490	RTD Pt1000 Ni100, Ni120, Cu10, Ni-Fe1000, N-Fe2000	12 to 24 VDC/VAC

SPECIFICATIONS

Input: See table.
Power Supply: SC models: 85 to 265 VDC/VAC, 50 to 400 Hz; SCL models: 12 to 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: ±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) Cu10 Ω = 5 mA; Plt 100 Ω, Ni 100 Ω, Ni 120 Ω = 500 µA; Plt 500 Ω, NiFe 1000 Ω = 100 µA; Plt 1000 Ω = 50 µA.
Lead Compensation Error: (SC1490) ≈ 0.02%/Ω.
Open Lead Protection: (SC1490) upscale only.
Input Impedance: SC1090: Voltage input = 1 MΩ, current input = 10 Ω; SC1290: 3 MΩ.
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.

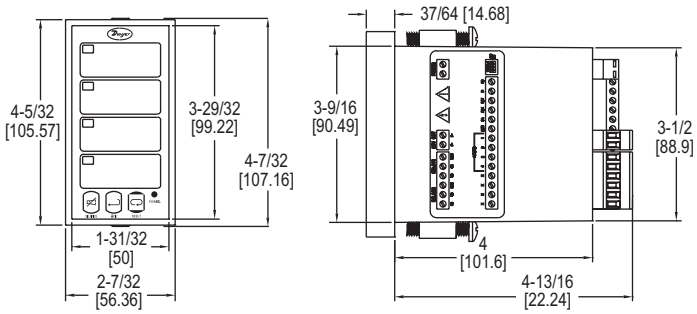
ACCESSORIES

Model	Description
A-360	Aluminum DIN rail 1 m

SERIES AN2

INDICATING ALARM ANNUNCIATOR

Up to 8 Inputs, Integral Power Supply



The **SERIES AN2** Indicating Alarm Annunciator provides visible and audible alarms for up to eight inputs. Audible alarm conditions can be acknowledged, reset, or silenced either via the front panel push buttons or the rear terminal block. The annunciator also has two SPDT relay outputs that can be used to initiate external alarms, buzzers, or paging devices.

FEATURES/BENEFITS
- Includes integral 24 VDC power supply to power most switches
- Can be set to any common ISA sequences

APPLICATIONS
- Water and wastewater panels
- Tank level monitoring
- Temperature monitoring process

SPECIFICATIONS

Inputs: NO or NC switches, open collector transistor (open circuit voltage = 3.3 VDC); Logic levels: LO = 0 to 0.9 VDC, HI = 2.4 to 28 VDC (100 KΩ input impedance).
Outputs: Two SPDT relay (3 A @ 250 VAC or 30 VDC, resistive; 1/14 HP @ 125/250 VAC, inductive).
Temperature Limits: -40 to 149°F (-40 to 65°C).
Power Requirements: 85 to 265 VAC 50/60 Hz, 90 to 265 VDC; 12 to 36 VDC, 12 to 24 VAC (depending on model).
Power Consumption: 20 W (6 W on low voltage models).
Mounting: 1/8 DIN.
Housing Material: UL rated 94V-0 high impact plastic.
Enclosure Rating: NEMA 4X (IP66) front panel.
Weight: 9.6 oz (272 g).
Agency Approvals: CE, UL.

MODEL CHART

Model	Number of Outputs	Power Supply
AN24-1	4	85 to 265 VAC
AN24-2	4	12 to 36 VDC
AN28-1	8	85 to 265 VAC
AN28-2	8	12 to 36 VDC