Process/Alarm Switch Module

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

The Series SC1090 Thermocouple Limit/Alarm Switch Modules are on-off or limit switches with selectable process signal. Input type, scale range, output action, and output type are all selectable by the user in the field. All selections are made through easily accessible switches without the need to open the product. 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.

These units mount easily on a standard 35 mm DIN rail. Low Voltage (SCL XXXX) units are also available.

**SPECIFICATIONS**

**Input:**
4 to 20 mA, 10 to 50 mA, 0 to 20 mA, 0 to 10 V, -10 to 10 mV.

**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).

**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).

**Input Impedance:**
(1090) voltage input = 1 megohms, current input = 10 ohms.

**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.

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**Model SC1090**

**Power Supply**
85 to 265 VDC/VAC $199.00
12 to 24 VDC/VAC $199.00

*Low Voltage Supply*

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**Electronic Fan Speed Control**

Low Cost, 0-10 VDC Input, Selectable Hard Start

The Model FC-1000 Electronic Fan Speed Control provides precise speed modulation of small AC motors. Popular 0-10 VDC input works with most process controllers, eliminating the need for more expensive dampers, damper actuators and linkages while improving overall energy efficiency of the system. This inexpensive unit enables variable control of ventilation fans, condenser fans and interfacing with VAV box controllers.

**SPECIFICATIONS**

**Line Voltage Range:**
120-277 VAC, 60 Hz.

**Input Signal Voltage:**
0-10 VDC.

**Low Voltage Input:**
24 VAC, class 2.

**Input Signal Impedance:**
10K ohms.

**Full Load Amp Rating:**
9.8 @ 120 VAC, 9.3 @ 208 VAC, 8.0 @ 240 VAC, 6.9 @ 277 VAC.

**Locked Rotor Amp Rating:**
24.0.

**Temperature Limits:**
-40 to 131°F (-40 to 55°C).

**Electrical Connections:**
Line voltage: 10-32 screw terminals. Signal and low voltage input: 1/4" quick connects.

**Transient Protection:**

**Housing Materials:**
Cold rolled steel.

**Enclosure Rating:**
NEMA 1.

**Mounting:**
Vertical only; four holes provided for #10 screws.

**Weight:**
1 lb, 11 oz (.77 kg).

**Agency Approval:**
UL.