

SC20ALMDC

Loop Powered Trip Amplifier



- High or Low Alarm Option
- Low Voltage Drop
- Isolated Input Stage
- Setpoints Available on Front Panel as 0.4-2V Signal (4-20mA)
- LED Indication Of Alarm
- Unique Low Cost Solution

General Specification

Recommended Operating Conditions

Input Current	4-20mA
Relay Contact Voltage	110Vac
Relay Current (max)	130mA @ 110Vac / 24Vdc
Output Resistance	24 (on) 110Vac Type

Environmental Conditions

Storage Temperature	-40 - 70 °C
Operating Ambient	0 - 55 °C
Relative Humidity	0 - 90 % RH

Technical Specifications

Parameter	Min	Typ	Max	Comments
Supply Voltage		Loop power		
Supply Current (mA)	4		20	
Full Scale Volt Drop		3.4V	3.5V	At 20mA Input
Relay Current			130mA	Rated at 110Vac
Output Resistance 'On'			24Ω	110Vac Relay Type
Trip Point Accuracy			0.25%	
Trip Point Drift			±100ppm/°C	
Temp Coefficient			±100ppm/°C	
Relay Time Response		10ms		
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage ^{see note}	1kV			
Surge Voltage	2.5kV for 50μS		Transient of 10kV/μS	

Notes

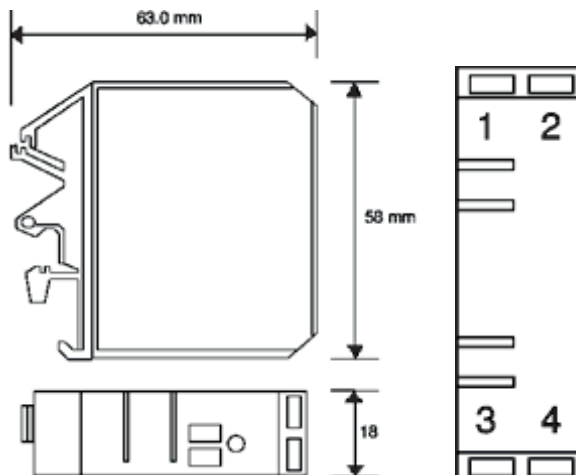
- Setpoint is adjusted by 20 turn potentiometers on the front panel.
- Setpoint can be checked by measuring the 0.4 to 2V (2-20mA) voltage on the front panel
- High or Low Alarm is selectable using internal link.
- Closed output contact is indicated by a red LED on the front panel

Installation Data

Mounting	DIN Rail TS32/35
Orientation	Any
Connections	Screw Clamp with pressure plate
Conductor Size	0.5-4.0mm
Insulation Stripping	12mm
Weight	Approx 45g

Ordering Information

Part No.: SC20ALMDC



Connection Details

1. Relay Output -ve
2. Relay Output +ve
3. Input Channel +ve
4. Input Channel -ve

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ISO9001 CERTIFIED

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