



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

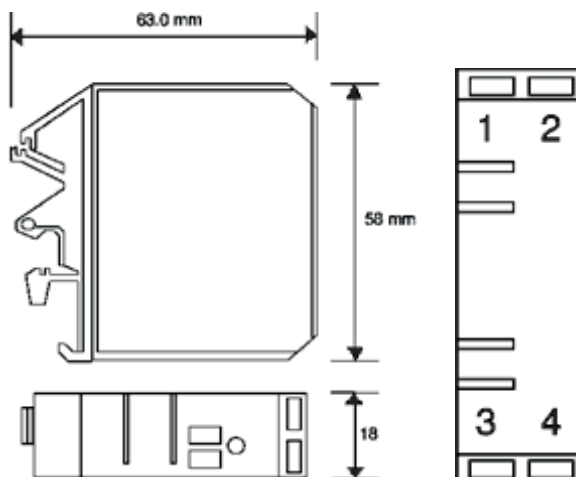
- Setpoint is adjusted by 20 turn potentiometers on the front panel.
- Setpoint can be checked by measuring the 0.4 to 2V (2-20mA) voltage on the front panel
- High or Low Alarm is selectable using internal link.
- Closed output contact is indicated by a red LED on the front panel

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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Made in the UK