



SC20ALMDC

Loop Powered Trip Amplifier



The SC20ALMDC is a 4-20mA direct current loop powered trip amplifier. The device derives its power from the input signal and therefore requires no external power supply. The output of the SC20ALMDC is a single pole, normally open, solid state relay which can be configured to close either above or below the adjustable setpoint. The switched output can be connected to any potential within 1kV of the transmitter supply, while transients of 2.5kV can be withstood.

The relay is designed to switch AC or DC.

The trip amplifier is typically used to activate a warning or control system override when a sensor output goes above or below a pre-set limit. Alternatively, the unit can be used for simple on/off control, having a built in switching hysteresis.

The device is housed in an ultra-compact DIN rail mounted enclosure, only 18mm wide.

Installation Data

Mounting DIN Rail TS32/35 Orientation Anv

Connections Screw Clamp with pressure plate

Conductor Size 0.5-4.0mm **Insulation Stripping** 12mm Approx 45g Weight

Ordering Information

Part No.: SC20ALMDC

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE. UK Telephone: +44 (0)1202 897969 Email: c3w_sales@sensata.com

ISO9001 CERTIFIED

cynergy3-sc-20almdc-v2 Made in the UK



- 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

130mA @ 110Vac / 24Vdc Relay Current (max) **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

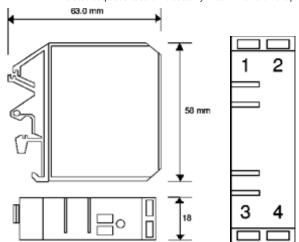
Parameter	Min	Тур	Max	Comments
Supply Voltage		Loop power		
Supply Current (mA)	4		20	
Full Scale Volt Drop		3.4V	3.5V	At 20mA Input
Relay Current			130mA	Rated at 110Vac
Output Resistance 'On'			24и	110Vac Relay Type
Trip Point Accuracy			0.25%	
Trip Point Drift			± 100 ppm/°C	
Temp Coefficient			±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



Connection Details

- Relay Output -ve
- Relay Output +ve
 Input Channel +ve
- 4. Input Channel -ve





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