

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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SC2002ALM-HL

Dual Trip Amplifier



The SC2002ALM-HL trip amplifier can accept a wide range of user configurable inputs including 4-20mA, 0-20mA, 0-5V and 0-10V. The unit can have up to two relay outputs and each can operate as a high or a low trip; alternatively latching operation using both trip points can be configured.

The relay outputs are single pole changeover relays with mains voltage rating. Each trip can be configured so that the alarm condition can be above or below setpoint. The relays can be energised or de-energised in the alarm condition, satisfying fail-safe and non-fail-safe applications. In addition the alarm LEDs can be selected to light when the relay is either on or off. All these options are user-configurable using internal DIP switches. This minimises the number of spare units required.

The input stage is fully isolated and the high level input current or voltage and range may be configured. Separate products are available for thermocouple and RTD inputs.

- Installation Data
 Mounting DIN Rail TS35
 Orientation Any
- Connections Screw Clamp with pressure plate Conductor Size 0.5-4.0mm
- Insulation Stripping U.5-4.0mm
 Weight 12mm
 Approx 120g

Ordering Information

Part No.: SC2002ALM-HL

Cynergy3 Components Ltd.
7 Cobham Road
Ferndown Industrial Estate
Wimborne, Dorset BH21 7PE
Telephone +44 (0) 1202 897969
Email:sales@cynergy3.com

ISO9001CERTIFIED

SC2002ALM-HL 2017



- Wide Range of User Configurable Inputs
- 2 Setpoints with Configurable Trip Action & Fail-safe mode
- Isolated Input Stage
- Setpoints Available as 0-10V, (0-100%) on terminals 9 & 12
- D.C or A.C. Power Supply Options, See 4002-ALM for Mains Version

Inputs

SC-2002ALM-HL Standard Ranges

0-20mA, 4-20mA, 0-10mA into $12\alpha/15\alpha/24\alpha$ 0-5V, 0-10V into $1M\alpha$

Min and Max Full Scale Ranges available to order:

DC Current 0 to 1mA 0 to 5A

DC Voltage 0 to 100mV 0 to 300V Note: For input voltages greater than 60Vdc a

Divider unit must be specified.

Outnute

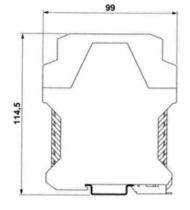
Mains Rated Relays - 3A resistive at 240V ac

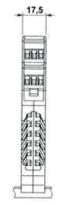
Technical Specifications					
Parameter	Min	Тур	Max	Comments	
Supply Voltage		24V			
Supply Current (mA)			45	24Vdc supply, both relays energised	
Volt Drop (mA input)		0.3	0.35	At 20mA Input	
Input Impedance (Volt)	100kΩ	$1M\Omega$	10ΜΩ	Dependant on range (typ=10V)	
Input Impedance (mA)	0.02Ω	15Ω	5kΩ	Dependant on range (typ=4-20mA)	
Trip Point Accuracy			0.25%		
Trip Point Drift			±100ppm/°C		
Temp Coefficient			±100ppm/°C		
Hysteresis		1% span			
Time Constant (10-90%	6)	10ms			
Operating Ambient	0°C		55°C		
Relative Humidity	0%		90%		
Isolation Voltage see note	1kV				
Surge Voltage	2.5kV fo	or 50µS	Transient o	of 10kV/µS	

Notes Setpoints are adjusted by 20 turn potentiometers on the front panel.

Setpoints can be checked by measuring the 0-10V (0-100%) voltage on terminals 9 &12 H/H,H/L, L/H, LL, fail-safe, non-fail safe and LED options are user selectable using internal links.

Hysteresis is set at 1.0% but other values are possible, please specify if required.





Connection Details				
10. Power input -ve				
11. Power input +ve				
Process Input -ve	and Setpoint common			
8. Process input +ve				
9. Setpoint 1 (0-10V = 0-100%)				
12. Setpoint 2 (0-10V = 0-100%)				
1. Relay 1 Common	4. Relay 2 Common			
2. Relay 1 N/C	5. Relay 2 N/C			
3 . Relay 1 N/O	6. Relay 2 N/O			

