MODEL: L4AS

Plug-in Signal Conditioners M-UNIT

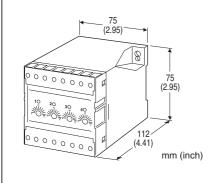
QUAD DC ALARM

Functions & Features

- Providing relay contact closures at preset DC input levels
- 4 setpoints: Hi/Hi, Hi, Lo, Lo/Lo
- Single turn screwdriver or dial setpoint adjustments
- Enclosed relays
- Relays can be powered 110 V DC
- Isolation up to 2000 V AC
- · High-density mounting

Typical Applications

- Annunciator
- · Various alarm applications



MODEL: L4AS-[1][2][3]-[4]

ORDERING INFORMATION

• Code number: L4AS-[1][2][3]-[4]

Specify a code from below for each of [1] through [4].

(e.g. L4AS-1A1-R)

[1] SETPOINT ADJUSTMENTS

1: Single-turn screws

2: Dials

[2] **INPUT**

Current

A: 4 - 20 mA DC (Input resistance 250 Ω)

Voltage

6: 1 – 5 V DC (Input resistance 1 M Ω min.)

[3] OUTPUT

1: 4 points; coil energized with input > setpoint

2: 2 points; coil energized with input < setpoint 2 points; coil energized with input > setpoint

[4] POWER INPUT

AC Power

K: 85 - 132 V AC

(Operational voltage range 85 - 132 V, 47 - 66 Hz)

L: 170 - 264 V AC

(Operational voltage range 170 - 264 V, 47 - 66 Hz)

DC Power

R: 24 V DC

(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

P: 110 V DC

(Operational voltage range 85 - 150 V, ripple 10 %p-p max.)

GENERAL SPECIFICATIONS

Construction: Stand-alone; terminal access at the front Connection: M3.5 screw terminals (torque 0.8 N·m) Housing material: Flame-resistant resin (black)

Isolation: Input to output to power

Setpoint adjustments: Single-turn screwdriver adjustments

or dials (front); -15 - +115 % independently **Hysteresis (deadband)**: Approx. 1 %

Front LEDs: Red LED turns on when the coil is energized.

INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated

OUTPUT SPECIFICATIONS

■ Relay Contact: 100 V AC @ 1 A ($\cos \emptyset = 1$)

120 V AC @ 1 A (cos \emptyset = 1) 240 V AC @ 0.5 A (cos \emptyset = 1) 30 V DC @ 1 A (resistive load)

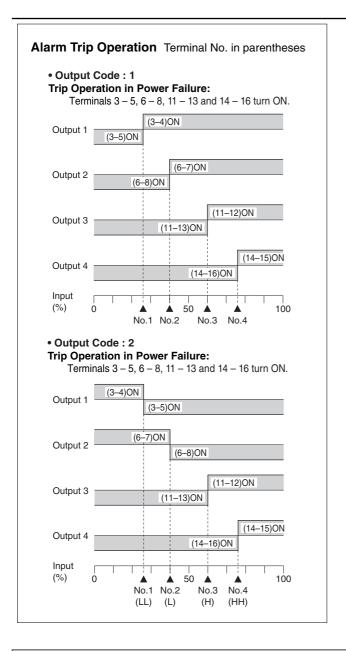
Maximum switching voltage: 380 V AC or 125 V DC Maximum switching power: 120 VA or 30 W

Minimum load: 5 V DC @ 10 mA Mechanical life: 5 x 10⁷ cycles

For maximum relay life with inductive loads, external

protection is recommended.

MODEL: L4AS



Dielectric strength: 2000 V AC @1 minute (input to output to power to ground)

INSTALLATION

Power consumption
•AC: Approx. 4.5 VA

•DC: Approx. 2 W (80 mA at 24 V)

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface or DIN rail **Weight**: 350 g (0.77 lb)

PERFORMANCE in percentage of span

Setpoint accuracy: $\pm 0.3~\%$

Temp. coefficient: ± 0.05 %/°C (± 0.03 %/°F)

Response time: \leq 0.5 sec. (0 - 100 % at 90 % setpoint)

Line voltage effect: ± 0.1 % over voltage range **Insulation resistance**: $\geq 100 \text{ M}\Omega$ with 500 V DC

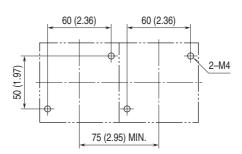
MODEL: L4AS

MOUNTING REQUIREMENTS

■ M5 SCREWS

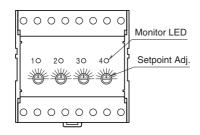
60 (2.36) 60 (2.36) 2–M5

■ M4 SCREWS

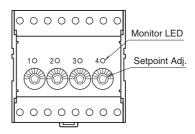


EXTERNAL VIEW

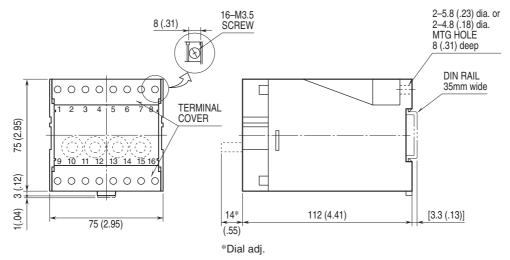
■ SCREWDRIVER ADJUSTMENTS



■ DIAL ADJUSTMENTS

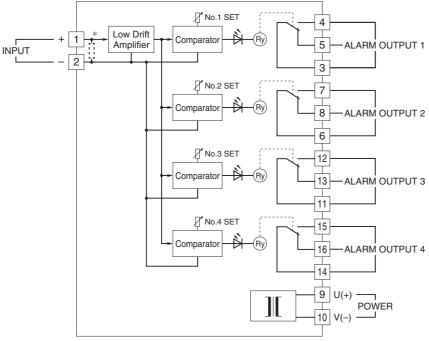


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

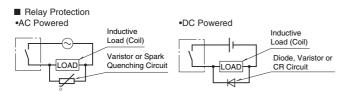


• When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*Input shunt resistor incorporated for current input.



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Specifications are subject to change without notice.