Limit Alarms (rotary switch adj.) AL-UNIT

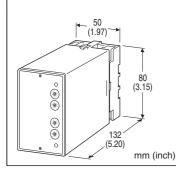
TWO-WIRE TRANSMITTER ALARM

Functions & Features

- Powering a 4 20 mA DC current loop
- Providing SPDT relay outputs at preset current levels
- Shortcircuit protection
- Applicable to smart transmitters
- Dual (Hi/Lo) trip
- Energized or de-energized coil at a tripped condition selectable
- Rotary switch setpoint adjustments
- Enclosed relays
- Relays can be powered 110 V DC
- High-density mounting

Typical Applications

- Annunciator
- Various alarm applications



MODEL: ALDY-[1][2]-[3]

ORDERING INFORMATION

• Code number: ALDY-[1][2]-[3] Specify a code from below for each [1] through [3]. (e.g. ALDY-11-B)

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INPUT

Current 4 - 20 mA DC (Input resistance 250 Ω)

[1] SETPOINT 1 OUTPUT

- 1: Hi (coil energized at alarm)
- 2: Hi (coil de-energized at alarm)
- 3: Lo (coil energized at alarm)
- 4: Lo (coil de-energized at alarm)

[2] SETPOINT 2 OUTPUT

- 1: Hi (coil energized at alarm)
- 2: Hi (coil de-energized at alarm)
- 3: Lo (coil energized at alarm)
- 4: Lo (coil de-energized at alarm)

[3] POWER INPUT

AC Power B: 100 V AC C: 110 V AC D: 115 V AC F: 120 V AC G: 200 V AC H: 220 V AC J: 240 V AC DC Power S: 12 V DC R: 24 V DC V: 48 V DC P: 110 V DC

GENERAL SPECIFICATIONS

Construction: Plug-in Connection: M3.5 screw terminals Housing material: Flame-resistant resin (black) Isolation: Input to output 1 to output 2 to power Setpoint adjustments: 10-position rotary switches (front); 0 - 99 % independently; 1 % increments Hysteresis (deadband): 0.7 - 2.5 % Front LEDs: Red lights turn on when the coils are energized. Power ON timer: Relays de-energized for approx. 2 seconds after power is turned on.

SUPPLY OUTPUT

Output voltage: 24 - 28 V DC with no load Current rating: ≤ 22 mA DC • Shortcircuit Protection Current limited: 35 mA max. Protected time duration: No limit

INPUT SPECIFICATIONS

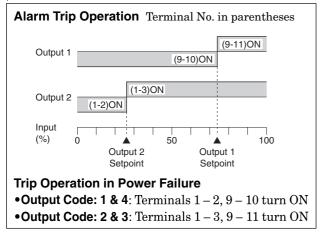
DC Current: Input resistor incorporated

OUTPUT SPECIFICATIONS

■ Relay Contact: 100 V AC @ 1 A (cos Ø = 1) 120 V AC @ 1 A (cos Ø = 1) 240 V AC @ 0.5 A (cos Ø = 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



TEL : (02)2598-1199 E-mail : info@xintop.com FAX : (02)2596-2331 Website : www.xintop.com Minimum load: 5 V DC @ 10 mA Mechanical life: 5 x 10⁷ cycles For maximum relay life with inductive loads, external protection is recommended.



INSTALLATION

Power input

•AC: Operational voltage range: rating ±10 %,
50/60 ± 2 Hz, approx. 2.5 VA
•DC: Operational voltage range: rating ±10 %, or 85 - 150 V
for 110 V rating (ripple 10 % p-p max.)
Approx. 2 W (80 mA at 24 V)
Operating temperature: -5 to +60°C (23 to 140°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Surface or DIN rail
Weight: 380 g (0.84 lbs)

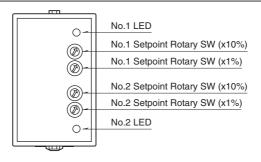
PERFORMANCE in percentage of span

Setpoint accuracy: $\pm 0.5 \%$ Trip point repeatability: $\pm 0.05 \%$ Temp. coefficient: $\pm 0.015 \%$ /°C ($\pm 0.008 \%$ /°F) Response time: Approx. 0.7 sec. (0 - 100 % at 90 % setpoint) Line voltage effect: $\pm 0.1 \%$ over voltage range Insulation resistance: $\ge 100 M\Omega$ with 500 V DC Dielectric strength: 2000 V AC @1 minute (input to output 1 to output 2 to power to ground)

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EXTERNAL VIEW

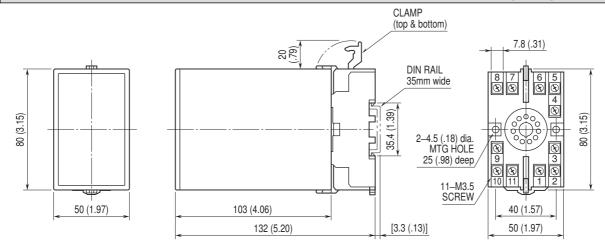




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MODEL: ALDY

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)

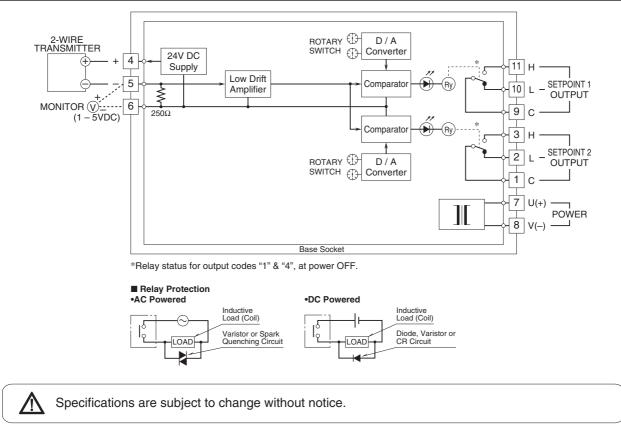


· When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

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