Limit Alarms (potentiometer adj.) A-UNIT

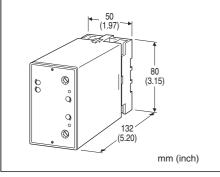
TWO-WIRE TRANSMITTER ALARM

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
- Hysteresis (deadband) adjustable
- Enclosed relays
- Relays can be powered 110 V DC
- High-density mounting

Typical Applications

- Annunciator
- Various alarm applications



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

ORDERING INFORMATION

• Code number: ADY-1[1][2]-[3]

Specify a code from below for each [1] through [3].

(e.g. ADY-111-B)

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

Zero adjustment: -5 to +5 % (front) Span adjustment: 95 to 105 % (front)

Setpoint adjustments: 270°-turn screwdriver adjustments

(front); 0 - 100 % independently

Hysteresis (deadband) adjustments: 1 – 100 % (front) **Front LEDs**: Lights turn on at a tripped condition; red for

output 1, green for output 2

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

TEL: (02)2598-1199 E-mail: info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com

OUTPUT SPECIFICATIONS

■ Relay Contact: 100 V AC @ 1 A (cos ø = 1)

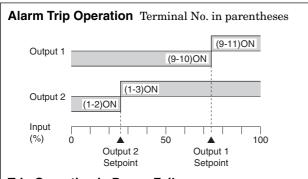
120 V AC @ 1 A (cos \emptyset = 1) 240 V AC @ 0.5 A (cos \emptyset = 1) 30 V DC @ 1 A (resistive load)

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.



Trip Operation in Power Failure

•Output Code: 1 & 4: Terminals 1 - 2, 9 - 10 turn ON

•Output Code: 2 & 3: Terminals 1 - 3, 9 - 11 turn ON

INSTALLATION

Power input

•AC: Operational voltage range: rating ±10 %,

 $50/60 \pm 2$ 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

Trip point repeatability: ±0.5 %

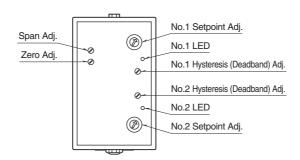
Temp. coefficient: ± 0.05 %/°C (± 0.03 %/°F)

Response time: ≤ 1 sec. (0 - 100 % at 90 % setpoint) Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC

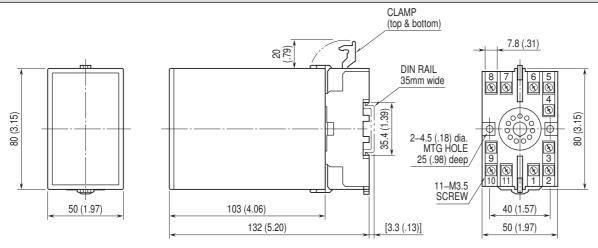
Dielectric strength: 2000 V AC @1 minute (input to output 1

to output 2 to power to ground)

EXTERNAL VIEW

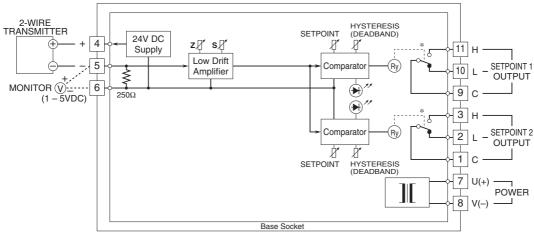


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)

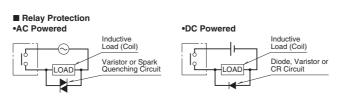


· When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



* Relay status for output codes "1" & "4", at power OFF.





幸託有限公司 XIN TOP CORPORATION

FAX: (02)2596-2331 Website: www.xintop.com

Specifications are subject to change without notice.