Limit Alarms (potentiometer adj.) A-UNIT

CT ALARM

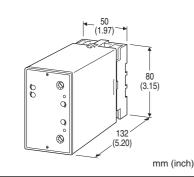
(Average sensing, RMS calibrated)

Functions & Features

- Providing SPDT relay outputs at preset AC current levels from a CT
- Dual (Hi/Lo) trip
- CT Protector provided for opencircuit protection
- 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: ACTA-[1]1[2][3]-[4]

ORDERING INFORMATION

• Code number: ACTA-[1]1[2][3]-[4] Specify a code from below for each of [1] through [4]. (e.g. ACTA-1111-B)

[1] INPUT

Current

1: 0 - 1 A AC **5**: 0 - 5 A AC

[2] 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)



[3] 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)

[4] 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

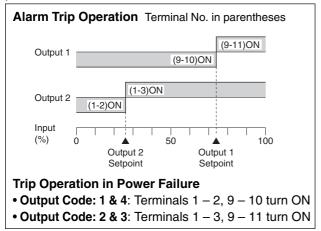
Construction: Plug-in Connection: M3.5 screw terminals Housing material: Flame-resistant resin (black) Isolation: Input to output 1 to output 2 to power Input waveform: Sine wave Zero adjustment: -5 to +5 % (front) Span adjustment: 95 to 105 % (front) Setpoint adjustments: 270°-turn screwdriver adjustments (front); 0 – 100 % independently Hysteresis (deadband) adjustments: 1 – 100 % (front) Front LEDs: LED turns 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.

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz Input burden: 0.5 VA maximum Overload capacity: 500 % of rating for 5 sec., 120 % continuous Operational range: 0 – 100 % of rating

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.



INSTALLATION

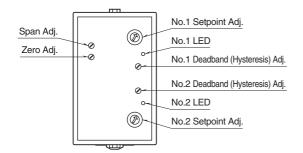
Power input

AC: Operational voltage range: rating ±10 %, 50/60 ±2 Hz, approx. 2 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: 450 g (0.99 lb)

PERFORMANCE in percentage of span

Trip point repeatability: $\pm 0.5 \%$ Temp. coefficient: $\pm 0.05 \%/^{\circ}C (\pm 0.03 \%/^{\circ}F)$ Response time: $\leq 0.7 \text{ sec.} (0 - 100 \% \text{ at } 90 \% \text{ setpoint})$ Line voltage effect: $\pm 0.1 \%$ over voltage range Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC Dielectric strength: 2000 V AC @1 minute (input to output 1 to output 2 to power to ground)

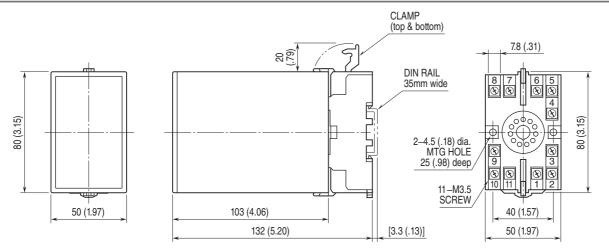
EXTERNAL VIEW





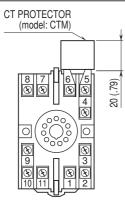
MODEL: ACTA

EXTERNAL DIMENSIONS unit: mm (inch)

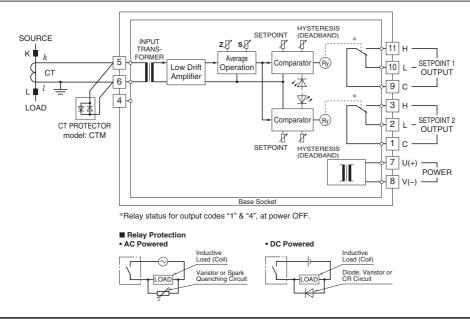


• When mounting, no extra space is needed between units.

TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





ACTA SPECIFICATIONS

Specifications are subject to change without notice.

