MODEL: ANR

Limit Alarms (potentiometer adj.) A-UNIT

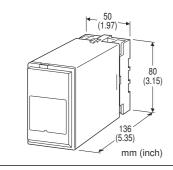
ANGLE SENSOR ALARM

Functions & Features

- Providing SPDT relay outputs at preset voltage level provided from Angle Sensor (model: NRA)
- Dual (Hi/Lo) trip
- Energized or de-energized coil at a tripped condition selectable
- 50 % zero/span adjustments
- Hysteresis (deadband) adjustable
- Enclosed relays
- Relays can be powered 110 V DC
- · High-density mounting

Typical Applications

- Annunciator
- · Various alarm applications



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

ORDERING INFORMATION

• Code number: ANR-[1]1[2][3]-[4]

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

(e.g. ANR-1111-B)

[1] ACTION

- 1: Direct (output increases with input increase)
- 2: Reverse (output increases with input decrease)

[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

RELATED PRODUCTS

•Brushless angle sensor (model: NRA)

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: 0 - 50 % of linearity-assured range of the

angle sensor (front)

Span adjustment: 50 - 100 % of linearity-assured range of

the angle sensor (front)

Setpoint adjustments: 270°-turn screwdriver adjustments

(front); 0 - 100 % independently

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

green for output 2 (located behind the front cover)

Power ON timer: Relays de-energized for approx. 2 seconds after power is turned on.

INPUT SPECIFICATIONS

Input: 2 - 3 V DC (output from Angle Sensor)

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

Excitation: 5 V DC ±2 %

MODEL: ANR

OUTPUT SPECIFICATIONS

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

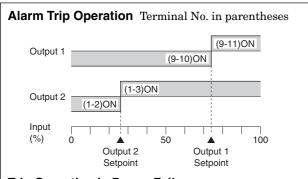
120 V AC @ 1 A (cos \emptyset = 1) 240 V AC @ 0.5 A (cos \emptyset = 1) 30 V DC @ 1 A (resistive load)

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 ±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 lbs)

PERFORMANCE in percentage of span

Trip point repeatability: ±0.5 %

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

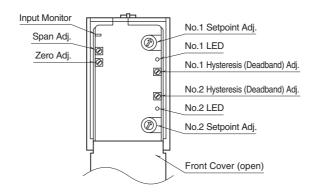
Dielectric strength: 2000 V AC @1 minute (input to output 1

to output 2 to power to ground)

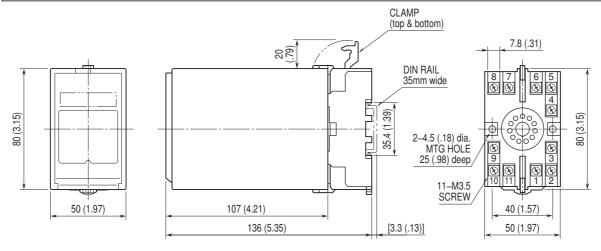


MODEL: ANR

EXTERNAL VIEW

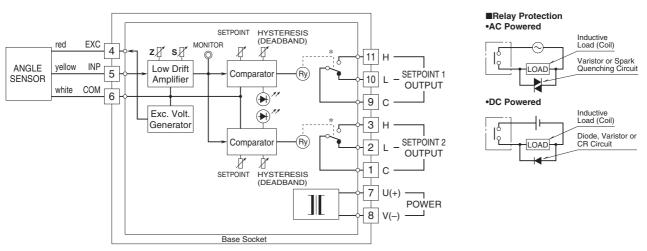


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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



Specifications are subject to change without notice.



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