

Plug-in Signal Conditioners M-UNIT

DC ALARM

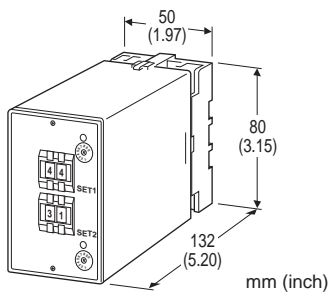
(thumbwheel switch adjustment)

Functions & Features

- Providing SPDT relay outputs at preset DC input levels
- Dual trip
- Latching or non-latching output
- Thumbwheel switch 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: ASD1-[1][2][3][4][5]-[6][7]

ORDERING INFORMATION

- Code number: ASD1-[1][2][3][4][5]-[6][7]
Specify a code from below for each [1] through [7].
(e.g. ASD1-61302-K3/UL)
- Specify the specification for option code /Q
(e.g. /C01/S01)

[1] INPUT

Current

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

Voltage

- 4: 0 - 10 V DC (Input resistance 1 MΩ min.)
- 5: 0 - 5 V DC (Input resistance 1 MΩ min.)
- 6: 1 - 5 V DC (Input resistance 1 MΩ min.)

[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] ON DELAY TIME

- 0: 0.5 seconds
- 1: 1 second
- 2: 2 seconds
- 3: 3 seconds
- 4: 4 seconds

[5] POWER ON DELAY TIME

- 1: 1 second
- 2: 2 seconds
- 5: 5 seconds

[6] POWER INPUT

AC Power

K3: 100 - 120 V AC

(Operational voltage range 90 - 132 V, 47 - 66 Hz)

L3: 200 - 240 V AC (Operational voltage range 180 - 264 V, 47 - 66 Hz) (UL not available)

[7] OPTIONS

Standards & Approvals

blank: CE marking

/UL: UL approval, CE marking

Other Options

/Q: Option other than the above (specify the specification)
(UL not available)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating

/C02: Polyurethane coating

/C03: Rubber coating

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M3.5 screw terminals

Screw terminal: Chromated steel (standard) or stainless steel

Housing material: Flame-resistant resin (black)

Isolation: Input to output to power

Setpoint adjustments: Thumbwheel switches (front); 0 - 99



% independently; 1 % increments

Deadband and latching control: 16-position rotary switches (front)

•**Deadband:** 0.5, 1 - 14 % independently; 1 % increments (SW position 0 = 0.5, A thr. E = 10 thr. 14); [Lo SP + Deadband] ≤ 102

•**Latching:** enabled at the position "F." For resetting, turn the power supply off or set the switch position to other than "F."

Front LEDs

Output 1: Red light turns on when the coil is energized.

Output 2: Green light turns on when the coil is energized.

INPUT SPECIFICATIONS

■ DC Current:

Shunt resistor attached to the input terminals (0.5 W)

OUTPUT SPECIFICATIONS

■ Relay Contact: 100 V AC @ 5 A (cos φ = 1)

120 V AC @ 5 A (cos φ = 1)

240 V AC @ 2.5 A (cos φ = 1)

30 V DC @ 5 A (resistive load)

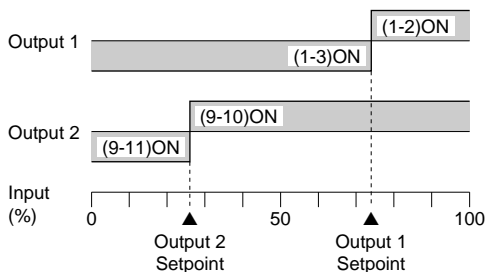
Maximum switching voltage: 300 V AC or 125 V DC

Maximum switching power: 600 VA or 150 W

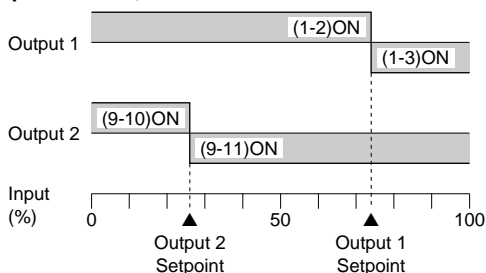
Minimum load: 5 V DC @ 10 mA

Mechanical life: 5 × 10⁷ cycles

•Output Code : 1, 4



•Output Code : 2, 3



INSTALLATION

Power consumption

•AC: Approx. 3 VA

Operating temperature: -5 to +60°C (23 to 140°F)

Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface or DIN rail

Weight: 300 g (0.66 lbs)

PERFORMANCE in percentage of span

Setpoint accuracy: ±0.5 %

Deadband setpoint accuracy: ±0.3 %

ON delay time accuracy: (0 - 100 % at 90 % setpoint)

Code 0: 0.5 ±0.2 sec.

Code 1, 2, 3, 4: rating ±20 %

Power ON delay time accuracy: rating ±35 %

Trip point repeatability: ±0.05 %

Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)

Line voltage effect: ±0.1 % over voltage range

Insulation resistance: ≥ 100 MΩ with 500 V DC

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

STANDARDS & APPROVALS

CE conformity:

EMC Directive (2004/108/EC)

EMI EN 61000-6-4: 2007

EMS EN 61000-6-2: 2005

Low Voltage Directive (2006/95/EC)

EN 61010-1: 2001

Measurement Category II (output)

Installation Category II (power)

Pollution Degree 2

Input to output to power - Basic insulation (300 V)

Approval:

UL/C-UL general safety requirements

(UL 3111-1:1994, CAN/CSA-C22.2 No.1010-1:1992)



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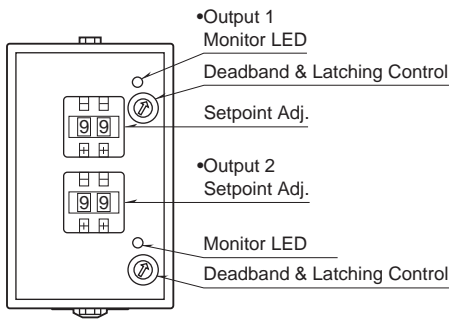
TEL : (02)2598-1199

FAX : (02)2596-2331

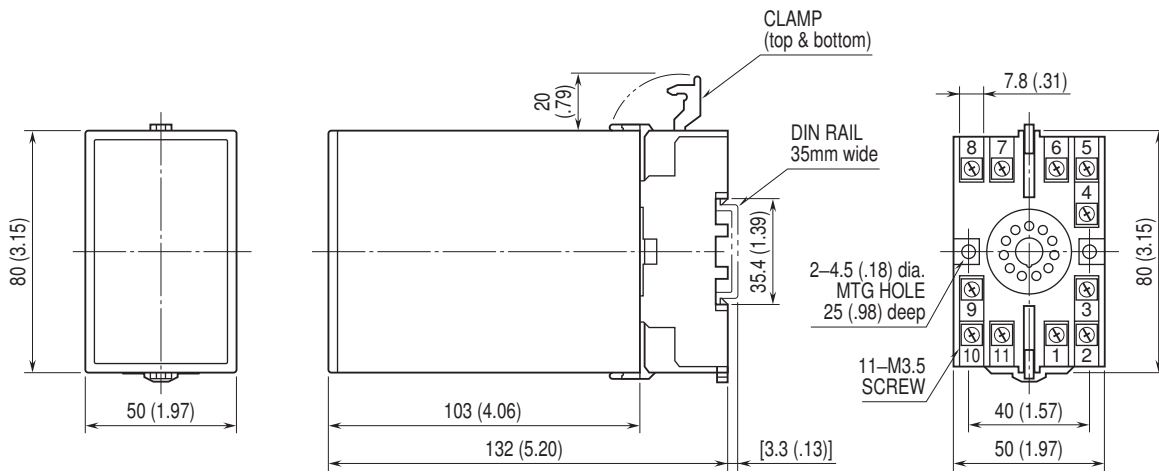
E-mail : info@xintop.com

Website : www.xintop.com

EXTERNAL VIEW

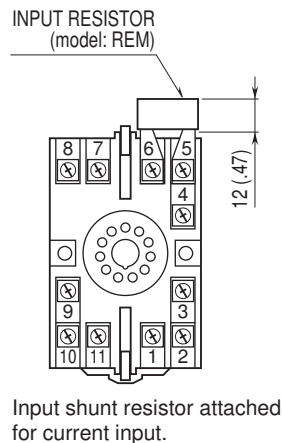


DIMENSIONS unit: mm (inch)

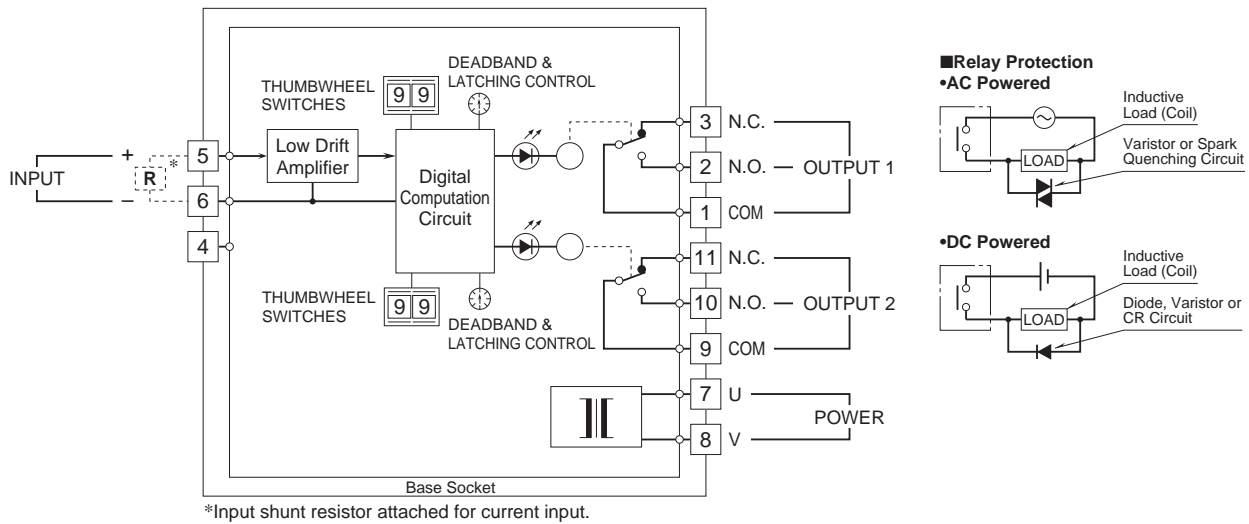


• When mounting, no extra space is needed between units.

TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.