MODFI: ASD

Plug-in Signal Conditioners M-UNIT

DC ALARM

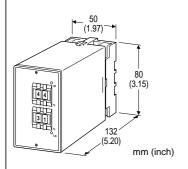
(thumbwheel switch adjustment)

Functions & Features

- Providing SPDT relay outputs at preset DC input levels
- Dual (Hi/Lo) trip
- 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: ASD-[1]1-[2][3]

ORDERING INFORMATION

• Code number: ASD-[1]1-[2][3]

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

(e.g. ASD-61-K/Q)

· Specify the specification for option code /Q

(e.g. /C01/S01)

[1] INPUT

Current

A1: 4 - 20 mA DC (Input resistance 50 Ω)

G: 0 - 1 mA DC (Input resistance 1000 Ω)

Voltage

4: 0 - 10 V DC (Input resistance 1 M Ω min.)

5: 0 – 5 V DC (Input resistance 1 M Ω min.)

6: 1 – 5 V DC (Input resistance 1 M Ω min.)

OUTPUT

Relay; SPDT or transfer contact

SETPOINT ADJUSTMENTS

1: Thumbwheel switch

[2] POWER INPUT

AC Power

K: 85 - 132 V AC

(Operational voltage range 85 - 132 V, 47 - 66 Hz)

L: 170 - 264 V AC

(Operational voltage range 170 - 264 V, 47 - 66 Hz)

DC Power

R: 24 V DC

(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

P: 110 V DC

(Operational voltage range 85 - 150 V, ripple 10 %p-p max.)

[3] OPTIONS

/Q: With options (specify the specification)

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 Hysteresis (deadband): Approx. 1 %

Front LEDs: Red light turns on when the coil for Hi output is

energized.

Green light turns on when the coil for Lo output is

energized.

INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated

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)



幸託有限公司 XIN TOP CORPORATION

TEL: (02)2598-1199 E-mail: info@xintop.com

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

MODEL: ASD

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

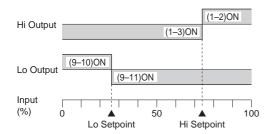
Maximum switching voltage: 380 V AC or 125 V DC Maximum switching power: 120 VA or 30 W

Minimum load: 5 V DC @ 10 mA Mechanical life: 5 x 10⁷ cycles

For maximum relay life with inductive loads, external

protection is recommended.

 $\textbf{Alarm Trip Operation} \ \mathrm{Terminal} \ \mathrm{No.} \ \mathrm{in} \ \mathrm{parentheses}$



Trip Operation in Power Failure

: Terminals 1-3, 9-11 turn ON.

INSTALLATION

Power consumptionAC: Approx. 3 VA

•DC: Approx. 3 W (130 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**: 300 g (0.66 lbs)

PERFORMANCE in percentage of span

Setpoint accuracy: ±0.5 % Trip point repeatability: ±0.05 %

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

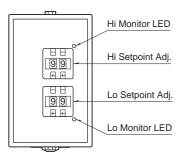
Response time: ≤ 0.5 sec. (0 - 100 % at 90 % setpoint)

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

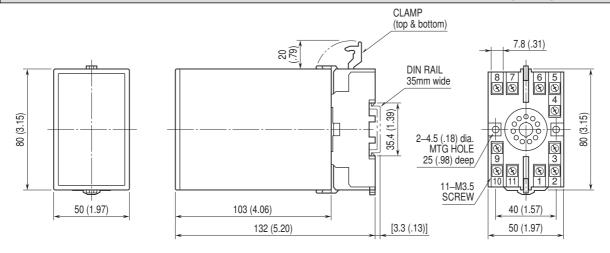
to power to ground)

EXTERNAL VIEW



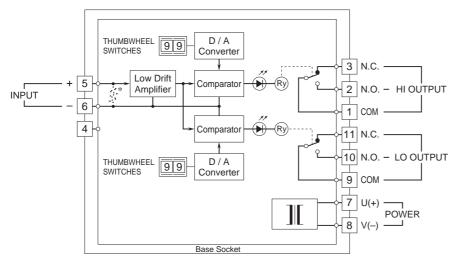
MODEL: ASD

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)

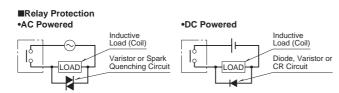


[•] When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*Input shunt resistor incorporated for current input.





Specifications are subject to change without notice.

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