

Space-saving Plug-in Signal Conditioners F-UNIT

DC ALARM

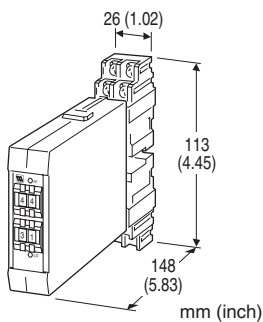
(thumbwheel switch adjustment)

Functions & Features

- Providing SPDT relay contact closures at preset DC input levels
- Dual (Hi/Lo) trip
- Thumbwheel switch setpoint adjustments
- Enclosed relays
- Relays can be powered 110 V DC
- High-density mounting

Typical Applications

- Annunciator
- Various alarm applications



MODEL: FASD-[1]1-[2]

ORDERING INFORMATION

- Code number: FASD-[1]1-[2]

Specify a code from below for each [1] and [2]
(e.g. FASD-61-R)

[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 MΩ min.)

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

6: 1 - 5 V DC (Input resistance 1 MΩ 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.)

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M3.5 screw terminals (torque 0.8 N·m)

Screw terminal: Nickel-plated 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 φ = 1)

120 V AC @ 1 A (cos φ = 1)

240 V AC @ 0.5 A (cos φ = 1)

30 V DC @ 1 A (resistive load)

Maximum switching voltage: 380 V AC or 125 V DC

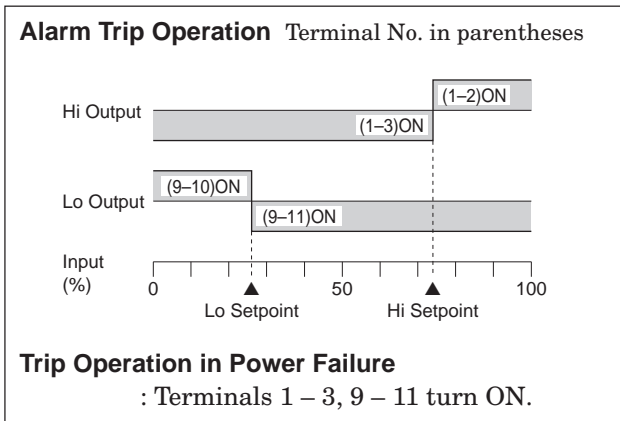
Maximum switching power: 120 VA or 30 W

Minimum load: 5 V DC @ 10 mA

Mechanical life: 5 x 10⁷ cycles

For maximum relay life with inductive loads, external protection is recommended.





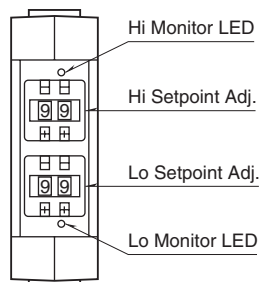
INSTALLATION

- AC: Approx. 3 VA
- DC: Approx. 3 W (130 mA at 24 V)
- Operating temperature:** -5 to +55°C (23 to 131°F)
- Operating humidity:** 30 to 90 %RH (non-condensing)
- Mounting:** Surface or DIN rail; Standard Rack Mounting
- Frame BX-16H available
- Weight:** 210 g (0.46 lbs)

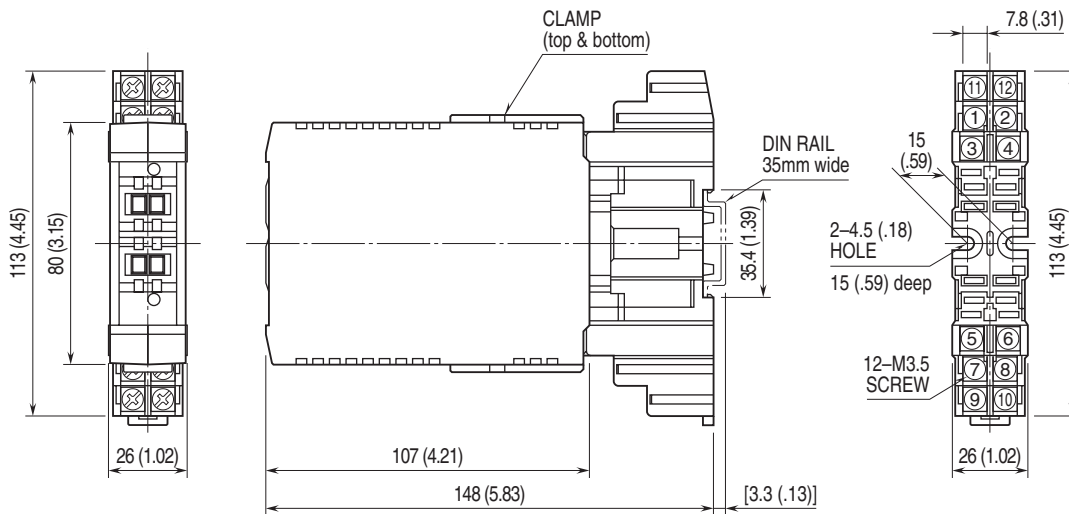
PERFORMANCE in percentage of span

- Setpoint accuracy:** $\pm 0.5\%$
- Trip point repeatability:** $\pm 0.05\%$
- Temp. coefficient:** $\pm 0.015\%/^{\circ}\text{C}$ ($\pm 0.008\%/^{\circ}\text{F}$)
- Response time:** ≤ 0.5 sec. (0 - 100 % at 90 % 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 to power to ground)

EXTERNAL VIEW

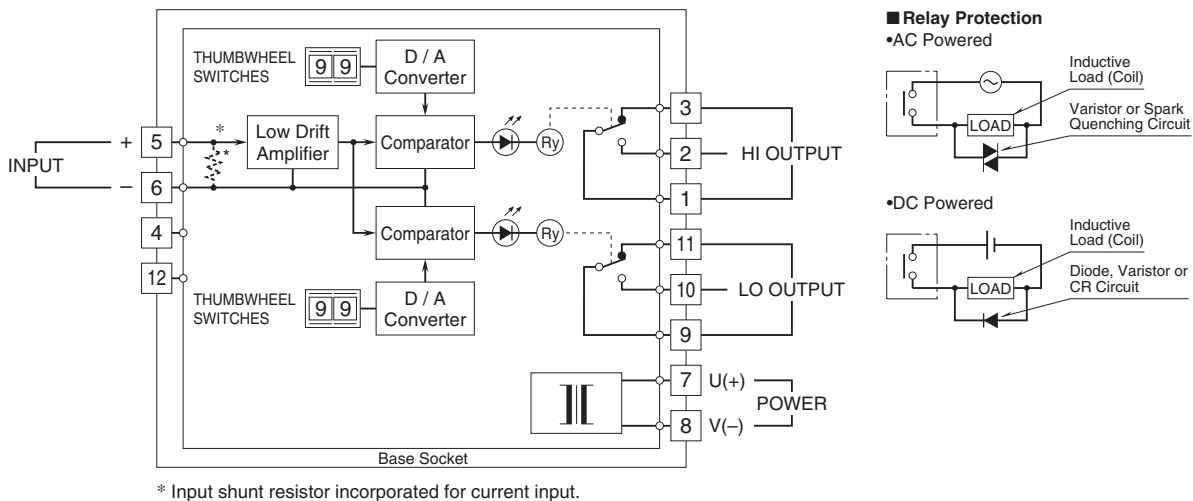


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



* Input shunt resistor incorporated for current input.



Specifications are subject to change without notice.