

Space-saving Plug-in Signal Conditioners F-UNIT

DC ALARM

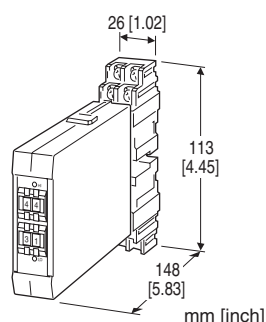
(thumbwheel switch adjustment)

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][3]

ORDERING INFORMATION

- Code number: FASD-[1]1-[2][3]
- Specify a code from below for each of [1] through [3].
(e.g. FASD-61-R/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 $\pm$ 10 %, ripple 10 %p-p max.)

P: 110 V DC

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

[3] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our 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 (torque 0.8 N·m)

Screw terminal: Nickel-plated 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 LED turns on when the coil for Hi output is energized.

Green LED 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 ($\cos \phi = 1$)120 V AC @ 1 A ($\cos \phi = 1$)240 V AC @ 0.5 A ($\cos \phi = 1$)

30 V DC @ 1 A (resistive load)

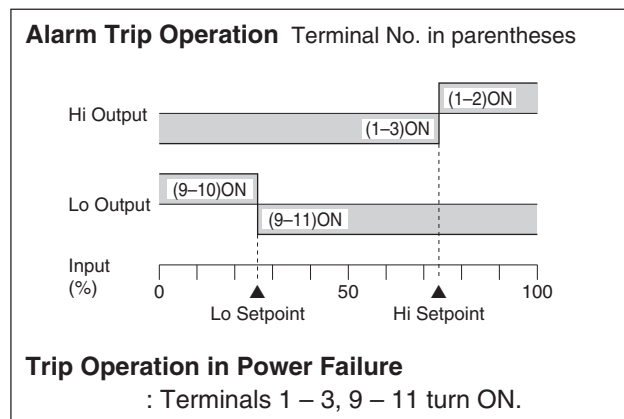
Maximum switching voltage: 380 V AC or 125 V DC

Maximum switching power: 120 VA or 30 W

Minimum load: 5 V DC @ 10 mA

Mechanical life: 5×10^7 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 lb)

PERFORMANCE in percentage of span

Setpoint accuracy: ± 0.5 %

Trip point repeatability: ± 0.05 %

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

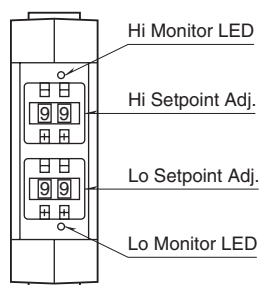
Response time: ≤ 0.5 sec. (0 – 100 % at 90 % setpoint)

Line voltage effect: ± 0.1 % over voltage range

Insulation resistance: ≥ 100 MΩ with 500 V DC

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

EXTERNAL VIEW





SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

