MODFI: M8SFD

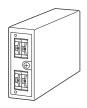
Dual Output Super-mini Signal Conditioners Pico-M Series

DC ALARM

(thumbwheel switch adjustment)

Functions & Features

- · Providing relay outputs at preset DC input levels
- Dual (Hi/Lo) trip
- Thumbwheel switch setpoint adjustments
- Space-saving, easy-to-maintain, multi-channel installation base



MODEL: M8SED-[1][2][3]-R[4]

ORDERING INFORMATION

Code number: M8SED-[1][2][3]-R[4]

Specify a code from below for each of [1] through [4]. (e.g. M8SED-A12-R/Q)

• Specify the specification for option code /Q (e.g. /C01)

[1] INPUT

Current

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

4: $0 - 10 \text{ V DC (Input resistance 1 M}\Omega \text{ min.)}$

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

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

[2] OUTPUT 1

1: Hi trip (ON = tripped; OFF = untripped or no power)

2: Hi trip (OFF = tripped; ON = untripped or no power)

[3] **OUTPUT2**

1: Lo trip (ON = tripped; OFF = untripped or no power)

2: Lo trip (OFF = tripped; ON = untripped or no power)

POWER INPUT

DC Power

R: 24 V DC

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

[4] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to our web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

RELATED PRODUCTS

• Installation Base or Single Mount Base Socket (model: M8BSx)

This unit must be mounted on dedicated base or socket except Model M8BS2 base.

GENERAL SPECIFICATIONS

Construction: Plug-in

Mounting screw: M3 screw (torque 0.3 N·m) Housing material: Flame-resistant resin (black) **Power supply**: Via the Installation Base terminals

(model: M8BSx)

Isolation: Input to output 1 to output 2 to power **Setpoint adjustments**: Thumbwheel switches (front);

0 - 99 % independently; 1 % increments;

(factory setting: 50 %)

Hysteresis (deadband): Approx. 1 %

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

Green LED turns on when the coil for Lo output is energized. Power ON timer: Relays de-energized for approx. 2 seconds

after power is turned on.

INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated

OUTPUT SPECIFICATIONS

Relay Contact: 125 V AC @0.2 A (cos ø = 1) *

30 V DC @0.5 A (resistive load) *

Maximum switching voltage: 125 V AC or 60 V DC Maximum switching power: 25 VA or 15 W Minimum load: 100 mV DC @100 μA **Mechanical life**: 5×10^6 cycles

* When used with a multi-channel installation base (e.g.

M8BS-16), the ratings derated as following.

Terminal block type: 125 V AC @0.2 A, 30 V DC @0.25 A Cable connector type: 24 V AC @50 mA, 24 V DC @50mA

	TRIP O		POWERED		UNPOWERED
	ACTION	CODE	INP < SET	INP > SET	UNFOWERED
OUT 1	Hi	1	OFF	ON	OFF
	Hi	2	ON	OFF	ON
OUT 2	Lo	1	ON	OFF	OFF
	Lo	2	OFF	ON	ON

INSTALLATION

Current consumption: Approx. 60 mA

Operating temperature: 0 to 55°C (32 to 131°F)
Operating humidity: 30 to 95 %RH (non-condensing)

Mounting: Installation Base (model: M8BSx)

Weight: 70 g (2.5 oz)

PERFORMANCE in percentage of span

Setpoint accuracy: $\pm 0.5 \%$ Trip point repeatability: $\pm 0.05 \%$

Temp. coefficient: ±0.02 %/°C (±0.01 %/°F)

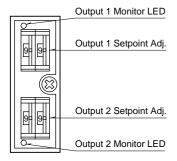
Response time: ≤ 0.7 sec. (0 - 100 % at 90 % setpoint)

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC

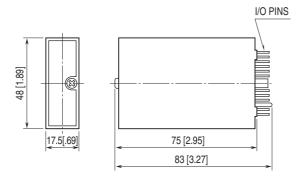
Dielectric strength: 1500 V AC @1 minute (input to output 1

to output 2 to power to ground) **SWC test**: ANSI/IEEE-C37.90.1-1989

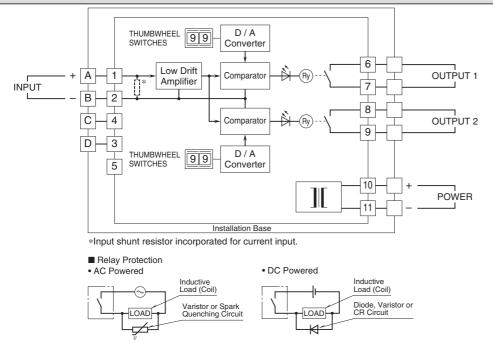
FRONT VIEW



EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.