MODEL: M8SED1

Dual Output Super-mini Signal Conditioners Pico-M Series

DC ALARM

(thumbwheel switch adjustment,CE)

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: M8SED1-[1][2][3]-R[4]

ORDERING INFORMATION

Code number: M8SED1-[1][2][3]-R[4]
 Specify a code from below for each [1] through [4].
 (e.g. M8SED1-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 M-System's 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 light turns on when the coil for Hi output is

energized.

Green light 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: 30 V DC @0.5 A (resistive load) *

Maximum switching voltage: 60 V DCMaximum switching power: $15 \text{ W } (\le 0.5 \text{ A})$ Minimum load: $100 \text{ mV DC} @ 100 \text{ } \mu\text{A}$ Mechanical life: $5 \times 10^6 \text{ cycles}$

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

M8BS-16), the ratings derated as following. Terminal block type: 30 V DC @0.25 A Cable connector type: 24 V DC @50 mA

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	TRIP	OUT	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: ±0.5 % Trip point repeatability: ±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

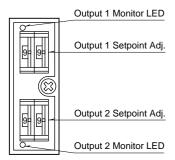
STANDARDS & APPROVALS

CE conformity:

EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007/A1: 2011

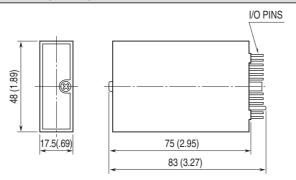
EMS EN 61000-6-2: 2005

FRONT VIEW

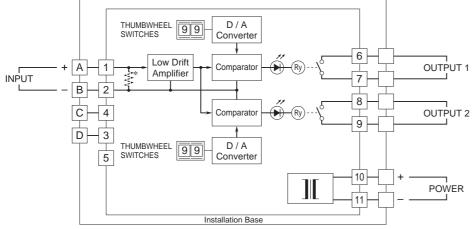


MODEL: M8SED1

DIMENSIONS unit: mm (inch)

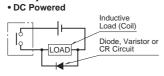


SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*Input shunt resistor incorporated for current input.







Specifications are subject to change without notice.

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Website: www.xintop.com