Space-saving Plug-in Signal Conditioners H-UNIT

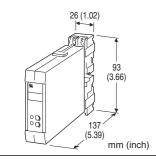
DC ALARM

Functions & Features

- Providing relay contact closures at preset DC input levels
- Single or dual (Hi/Lo) trip
- · Multi-turn screwdriver setpoint adjustments
- Enclosed relays
- Relays can be powered 110 V DC
- · High-density mounting

Typical Applications

- Annunciator
- · Various alarm applications



MODEL: HAS-[1][2]-R[3]

ORDERING INFORMATION

• Code number: HAS-[1][2]-R[3]

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

(e.g. HAS-62-R/Q)

- Special input range (For code 0)
- Specify the specification for option code /Q (e.g. /C01/S01)

Use Ordering Information Sheet (No. ESU-1033) to specify output code 0 specifications.

[1] INPUT

Current

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

D: 0 - 20 mA DC (Input resistance 50 Ω)

 $\textbf{G} \colon 0$ – 1 mA DC (Input resistance 1000 $\Omega)$

H: 10 – 50 mA DC (Input resistance 100 Ω)

Voltage

3: 0 - 1 V DC (Input resistance 1 M Ω min.)

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

5: $0 - 5 \text{ V DC (Input resistance 1 M}\Omega \text{ min.)}$

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

0: Specify voltage (See INPUT SPECIFICATIONS)

[2] **OUTPUT**

1: Single (SPDT); Hi in power failure

2: Single (SPDT); Lo in power failure

5: Hi/Lo (N.O.); OFF in power failure

6: Hi/Lo (N.C.); OFF in power failure

0: Specify

POWER INPUT

DC Power

R: 24 V DC

(Operational voltage range 24 V ±10 %, 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 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 (torque 0.8 N·m)

Screw terminal: Nickel-plated steel

Housing material: Flame-resistant resin (black)

Isolation: Input to output to power

Setpoint adjustments: Multi-turn screwdriver adjustments

(front); -5 - +105 % independently **Hysteresis (deadband)**: Approx. 1 %

Front LEDs: Red light turns on when the coil is energized. **Power ON timer**: Relays de-energized for approx. 2 seconds

after power is turned on.

INPUT SPECIFICATIONS

■ DC Current:

Shunt resistor attached to the input terminals (0.5 W)

■ DC Voltage: 0 – 300 V DC

Minimum span: 1 V

Offset: Max. 1.5 times span Input resistance: $\geq 1 \text{ M}\Omega$



OUTPUT SPECIFICATIONS

■ Relay Contact: 100 V AC @ 1 A (cos ø = 1)

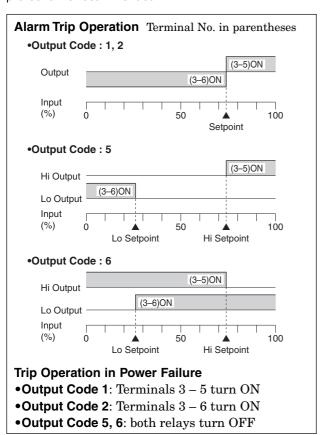
120 V AC @ 1 A (cos \emptyset = 1) 240 V AC @ 0.5 A (cos \emptyset = 1) 30 V DC @ 1 A (resistive load)

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.



Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC Dielectric strength: 500 V AC @ 1 minute

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

(input to output to power)

1500 V AC @ 1 minute (input or output or power to ground)

INSTALLATION

Current consumption: Approx. 40 mA

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**: 180 g (0.40 lbs)

PERFORMANCE in percentage of span

Trip point repeatability: ±0.1 %

Temp. coefficient: ± 0.015 %/°C (± 0.008 %/°F) Response time: Approx. 0.5 sec. (0 – 100 % at 90 %

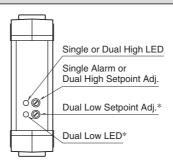
setpoint)

Line voltage effect: ±0.1 % over voltage range



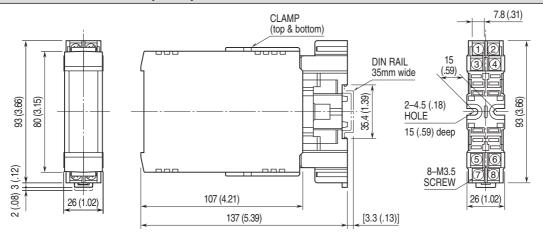
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EXTERNAL VIEW



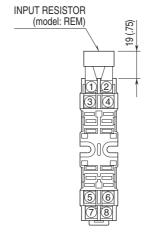
*Not provided for Single Alarm.

DIMENSIONS unit: mm (inch)



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

TERMINAL ASSIGNMENTS unit: mm (inch)



Input shunt resistor attached for current input.

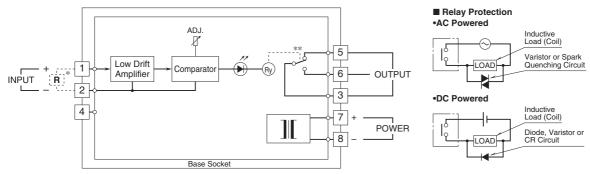
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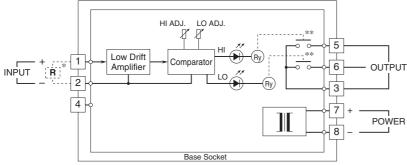
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

■ SINGLE ALARM



* Input shunt resistor attached for current input. **Relay status is determined by output codes.

■ DUAL ALARM



- * Input shunt resistor attached for current input.
- **Relay status is determined by output codes.



Specifications are subject to change without notice.

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