MODEL: HDL

Space-saving Plug-in Signal Conditioners H-UNIT

CURRENT LOOP SUPPLY

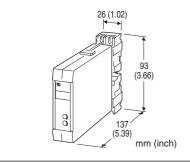
(with square root extractor; non-isolated)

Functions & Features

- Powering a 4 20 mA DC current loop
- Square root extraction
- Shortcircuit protection
- Applicable to smart transmitters
- · High-density mounting

Typical Applications

· Various 2-wire transmitters



MODEL: HDL-24-R[1]

ORDERING INFORMATION

• Code number: HDL-24-R

Specify a code from below for [1].

(e.g. HDL-24-R/Q)

 Specify the specification for option code /Q (e.g. /C01/S01)

SUPPLY OUTPUT

24: 24 V DC

INPUT

Current

4 - 20 mA DC (Input resistance 250 Ω)

OUTPUT

Voltage

1-5 V DC (Load resistance $10 \text{ k}\Omega$ min.)

POWER INPUT

DC Power

R: 24 V DC

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

[1] 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 or output to power Overrange output: 0 to 120 % at 1 - 5 V Zero adjustment: -5 to +5 % (front) Span adjustment: 95 to 105 % (front) Low-end cutout: Approx. 10 % (output)

SUPPLY OUTPUT

Output voltage: 24 - 28 V DC with no load

Current rating: ≤ 22 mA DC
• Shortcircuit Protection
Current limited: 30 mA max.
Protected time duration: No limit

INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated

INSTALLATION

Power consumption: Approx. 80 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**: 200 g (0.44 lbs)

PERFORMANCE in percentage of span

Accuracy: ±0.3 % (input 1 - 100 %)

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

Response time: ≤ 0.5 sec. (0 - 90 %)

Line voltage effect

Supply output: ± 3 % over voltage range Output signal: ± 0.1 % over voltage range Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC



幸託有限公司 XIN TOP CORPORATION TEL: (02)2598-1199 E-mail: info@xintop.com

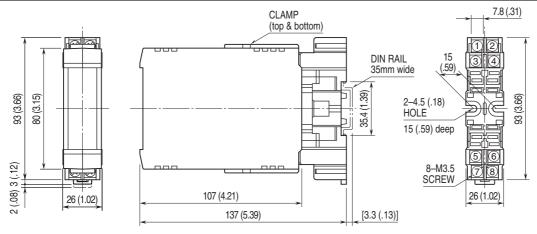
FAX: (02)2596-2331 Website: www.xintop.com

Dielectric strength: 500 V AC @ 1 minute (input or output to

power)

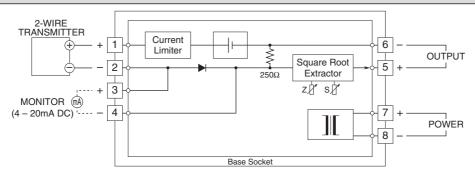
1500 V AC @ 1 minute (input or output or power to ground)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.

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