MODEL: HDY2

### Space-saving Plug-in Signal Conditioners H-UNIT

### **CURRENT LOOP SUPPLY**

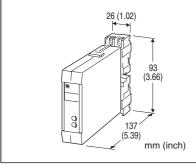
(isolated)

#### **Functions & Features**

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

#### **Typical Applications**

· Various 2-wire transmitters



MODEL: HDY2-24[1]-R[2]

### **ORDERING INFORMATION**

• Code number: HDY2-24[1]-R[2]

Specify a code from below for each of [1] and [2]. (e.g. HDY2-246-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 300  $\Omega$ )

### [1] OUTPUT

Current

A: 4 - 20 mA DC (Load resistance 750  $\Omega$  max.)

**B**: 2 – 10 mA DC (Load resistance 1500  $\Omega$  max.)

C: 1 - 5 mA DC (Load resistance 3000  $\Omega$  max.) Voltage

1: 0 - 10 mV DC (Load resistance 10 k $\Omega$  min.)

**2**: 0 – 100 mV DC (Load resistance 100 k $\Omega$  min.)

3: 0 - 1 V DC (Load resistance 1000  $\Omega$  min.)

**4**: 0 – 10 V DC (Load resistance 10 k $\Omega$  min.)

**5**: 0 – 5 V DC (Load resistance 5000  $\Omega$  min.)

**6**: 1 – 5 V DC (Load resistance 5000  $\Omega$  min.)

#### **POWER INPUT**

DC Power

R: 24 V DC

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

### [2] 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

Overrange output: Approx. -10 to +120 % at 1 - 5 V

Zero adjustment: -5 to +5 % (front) Span adjustment: 95 to 105 % (front)

### **SUPPLY OUTPUT**

(across the terminals 1 - 2)

Output voltage:

24 - 28 V DC with no load
18 V DC min. at 20 mA
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**

Current consumption: Approx. 90 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 lb)

# **PERFORMANCE** in percentage of span

Accuracy: ±0.1 %

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

Response time:  $\leq 0.5$  sec. (0 - 90 %)

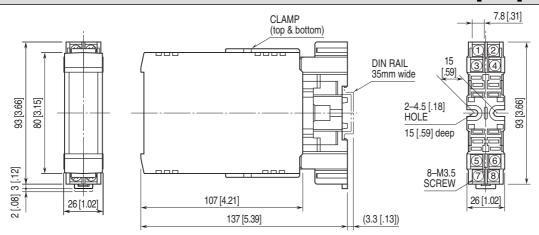
Line voltage effect

Supply output:  $\pm 3$  % over voltage range Output signal:  $\pm 0.1$  % over voltage range Insulation resistance:  $\geq 100$  M $\Omega$  with 500 V DC Dielectric strength: 500 V AC @ 1 minute

(input to output to power)

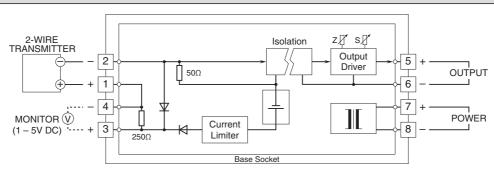
1500 V AC @ 1 minute (input or output or power to ground)

### **EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS** unit: mm [inch]



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

## **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



 $\Lambda$ 

Specifications are subject to change without notice.