MODEL: 10D

# **High-density Signal Conditioners 10-RACK**

## **CURRENT LOOP SUPPLY**

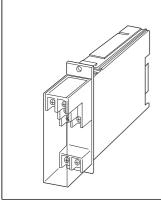
(non-isolated)

#### **Functions & Features**

- Powering a 4 20 mA DC current loop
- Electrically isolating output signal from power input
- · Shortcircuit protection
- Applicable to smart transmitters

### **Typical Applications**

Various 2-wire transmitters



MODEL: 10D-A60-R[1]

## **ORDERING INFORMATION**

• Code number: 10D-A60-R[1] Specify a code from below for [1].

(e.g. 10D-A60-R/Q)

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

# **INPUT**

#### Current

**A**: 4 - 20 mA DC (Input resistance 250  $\Omega$ )

# **OUTPUT**

#### **Voltage**

**6**: 1 – 5 V DC (Load resistance 250 kΩ min.)

#### **OUTPUT 2**

0: None

### **POWER INPUT**

**DC Power** 

R: 24 V DC

(Operational voltage range 24 V  $\pm$ 10 %, ripple 10 %p-p max.)

## [1] 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

### **GENERAL SPECIFICATIONS**

**Construction**: Rack-mounted; terminal access via screw terminals at the front and via card-edge connector at the

rear; terminal cover provided

Connection

Input: M3.5 screw terminals (torque 0.8 N·m)

Output: Card-edge connector and M3.5 screw terminals

(torque 0.8 N·m)

**Power input**: Supplied from card-edge connector

Screw terminal: Nickel-plated steel

Housing material: Flame-resistant resin (black)

Isolation: Input or output to power

### **SUPPLY OUTPUT**

Output voltage: 24 - 32 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

## **OUTPUT SPECIFICATIONS**

The output goes below 0 % when the input is open.

#### INSTALLATION

Current consumption: Approx. 50 mA

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Standard Rack 10BXx

Weight: 200 g (0.44 lb)

## **PERFORMANCE** in percentage of span

**Accuracy**:  $\pm 0.1$  % (accuracy of the receiving resistor) **Temp. coefficient**:  $\pm 0.003$  %/°C ( $\pm 0.002$  %/°F) (temp.

coefficient of the receiving resistor)

Line voltage effect to supply output: ±3 % over voltage

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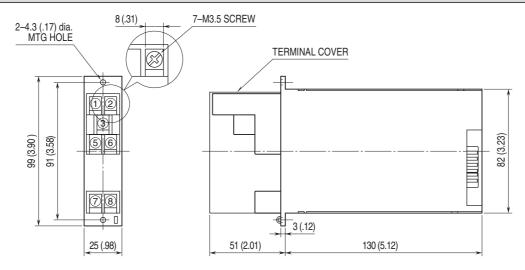
**Insulation resistance**:  $\ge 100 \text{ M}\Omega$  with 500 V DC

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

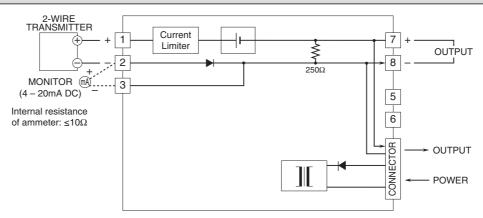
power)

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

# **EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)**



# **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



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Specifications are subject to change without notice.