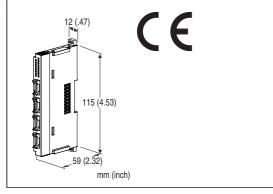
### Remote I/O R8 Series

## **DC CURRENT INPUT MODULE**

(4 points, non-isolated)

#### **Functions & Features**

- 4 channels for DC current input, compact size remote I/O module
- Input range adjustment with DIP switch or PC configurator



**MODEL: R8-SS4N** 

## ORDERING INFORMATION

Code number: R8-SS4N

## **RELATED PRODUCTS**

• PC configurator software (model: R8CFG)

Downloadable at M-System's web site.

A dedicated cable is required to connect the module to the PC. Please refer to the internet software download site or the users manual for the PC configurator for applicable cable types.

## **GENERAL SPECIFICATIONS**

#### Connection

•Input: 4-pin e-CON connector

PWB connector XN2D-1474-S002 (Omron)

Recommended cable connector XN2A-1470 (Omron)

Applicable wire size 0.08 mm<sup>2</sup> (AWG28) - 0.5 mm<sup>2</sup> (AWG20)

Outer sheath diameter: max. 1.5 dia

(The cable connector is not included in the package.

Refer to the specifications of the product.)

Excitation supply, internal bus:

Connected to internal bus connector

•Internal power: Supplied from internal bus connector Isolation: Input to exc. supply to internal bus or internal

power

Module address: With rotary switch

**Terminating resistor**: Built-in (DIP Switch, default: disable) **Status indicator**: Bi-color (red/green) LED; Refer to the

instruction manual.

Input status indicators: Red LED; Refer to the instruction

nanual.

### **INPUT**

Input range: -20 - +20 mA DC configurable

**Input range**: -5 - +105 % (in percentage of input range)

**Input resistance**: 50 Ω

### **INSTALLATION**

Max. current consumption: 80 mA

Operating temperature: -10 to +55°C (14 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing)

Atmosphere: No corrosive gas or heavy dust

Mounting: DIN rail Weight: 60 g (2.12 oz)

#### **PERFORMANCE**

Conversion accuracy (in percentage of input range)

±0.1 % (@ input range -20 - +20 mA)

Conversion accuracy is inversely proportional to input span.

Conversion accuracy computation example:

When input range is 4 - 20 mA: conversion accuracy = nominal input span (40 mA)  $\div$  input span (16 mA)  $\times$  0.1(%)

Nominal input span is the same as the span at input range  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 

-20 - +20 mA DC.

Conversion rate: 4 msec.

**Input circuit time constant**: Approx. 1 msec. **Data range**: 0 – 10000 of the input range

Data allocation: 2

Module addresses in use: 2 Max. consumption current: 80 mA

Temp. coefficient:  $\pm 0.015$  %/°C ( $\pm 0.008$  %/°F) Insulation resistance:  $\geq 100$  M $\Omega$  with 500 V DC

TEL: (02)2598-1199 E-mail: info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com

Dielectric strength:

1500 V AC @ 1 minute (input to exc. supply to internal bus

or internal power to ground)

# **STANDARDS & APPROVALS**

CE conformity:

EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007 EMS EN 61000-6-2: 2005



## **EXTERNAL VIEW**

## **■** FRONT VIEW **■ SIDE VIEW** Module Address Setting Rotary SW Status Indicator LED Input Status Indicator LED CARD ADD. $\phi$ \* Function Setting DIP SW Internal Bus Connector 딗 ( 💷 딗 12345678 Input Connectors SW3 Term Terminator DIP SW

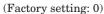
# **OPERATING MODE SETTING**

#### (\*) Factory setting

Caution! - SW4-3 through 4-7 are unused. Be sure to turn off unused ones.

#### **■ MODULE ADDRESS**

The left switch determines the tenth place digit, while the right switch does the ones place digit of the address. Address is selected between 0 to 31.





#### ■ Range

Same range for all channels. Use PC Configurator to set independent ranges per channel.

| INPUT RANGE     | SW4-1 | SW4-2 |
|-----------------|-------|-------|
| 0 – 20mA DC     | OFF   | OFF   |
| 4 – 20mA DC (*) | ON    | OFF   |

### **■** Configuration Mode

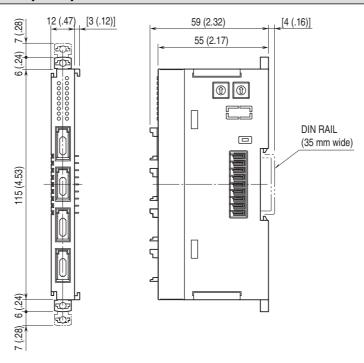
| J                                 |     |
|-----------------------------------|-----|
| CONFIGURATION MODE                | SW4 |
| CONFIGURATION WODE                | 8   |
| DIP switch setting (*)            | OFF |
| PC Configurator and communication | ON  |

#### **■** Terminator DIP SW

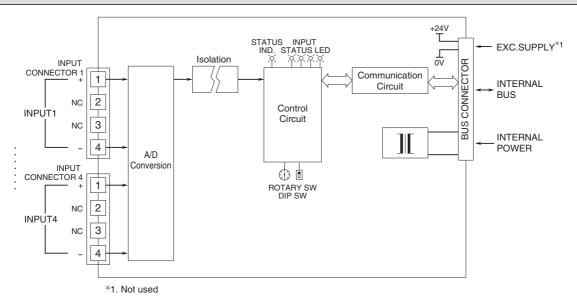
| Terminator switch | SW3 |
|-------------------|-----|
| Without (*)       | OFF |
| With              | ON  |

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# **DIMENSIONS** unit: mm (inch)



# **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



 $\Lambda$ 

Specifications are subject to change without notice.

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