MODEL: R8-SS2

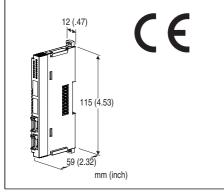
Remote I/O R8 Series

DC CURRENT INPUT MODULE

(2 points, isolated)

Functions & Features

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



MODEL: R8-SS2

ORDERING INFORMATION

Code number: R8-SS2

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 mm² (AWG28) - 0.5 mm² (AWG20)

Outer sheath diameter: max. 1.5 dia

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 1 to input 2 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

manual.

INPUT

Input range: -20 - +20 mA DC configurable

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

Input resistance: 100Ω

INSTALLATION

Max. current consumption: 100 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(%) = 0.25 (%).

Nominal input span is the same as the span at input range -20 - +20 mA DC.

Conversion rate: 2 msec.

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

Data allocation: 2

Module addresses in use: 1

Max. consumption current: 100 mA

Temp. coefficient: ± 0.015 %/°C (± 0.008 %/°F) Insulation resistance: ≥ 100 M Ω with 500 V DC

Dielectric strength:

1000 V AC @ 1 minute (input 1 to input 2 to exc. supply to

internal bus or internal power to FG)

1000 V AC @ 1 minute (for modules combined with this

device)

STANDARDS & APPROVALS

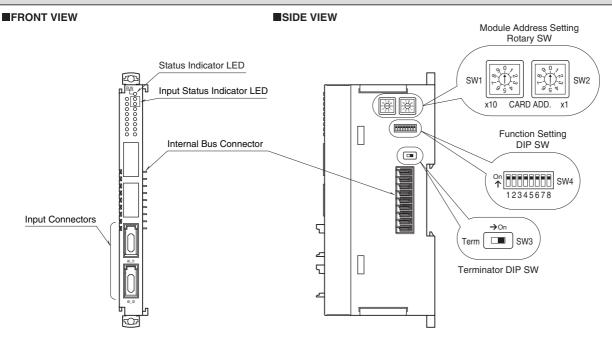
CE conformity:

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



MODEL: R8-SS2

EXTERNAL VIEW



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. (Factory setting: 0)



■ 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

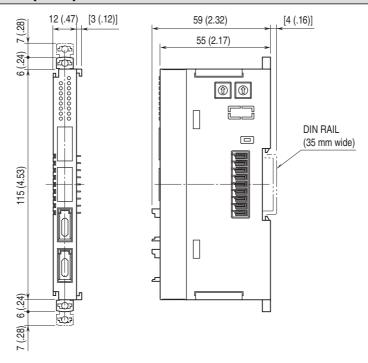
CONFIGURATION MODE	SW4
CONFIGURATION MODE	8
DIP switch setting (*)	OFF
PC Configurator and communication	ON

■ Terminator DIP SW

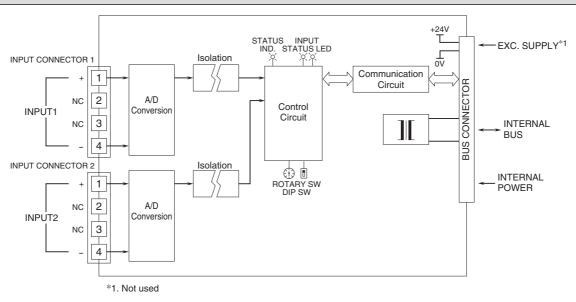
Terminator switch	SW3
Without (*)	OFF
With	ON

MODEL: R8-SS2

DIMENSIONS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.

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