

Remote I/O R8 Series

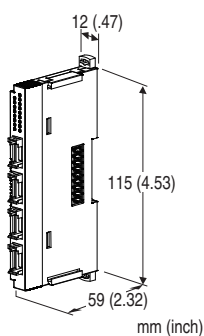
Input resistance: 50 Ω

DC CURRENT INPUT MODULE

(built-in excitation, 4 points, non-isolated)

Functions & Features

- Accepts direct input from DC signal, compact size remote I/O module
- Accepts direct input from power output as sensor power and outputs from terminals



MODEL: R8-SS4NJ

ORDERING INFORMATION

- Code number: R8-SS4NJ

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
(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 manual.

INPUT

Input range: -20 - +20 mA DC configurable

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

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) ÷ input span (16 mA) × 0.1(%)
= 0.25 (%).

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

Conversion rate: 4 msec. @ 4 input

Input circuit time constant: Approx. 1 msec.

Data range: 0 - 10000 of the input range

Data allocation: 2

Module addresses in use: 2

Power output (input terminal): Rated current DC 0.5 A DC
per channel (rated current 3 A for internal fuse (slow blow
fuse i²t (A²sec) max. 5.04); Total: 1 A DC

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

Insulation resistance: ≥ 100 M Ω with 250 V DC

Dielectric strength: 300 V AC @1 minute

(input to exc. supply)

1500V AC @1 minute

(input or 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

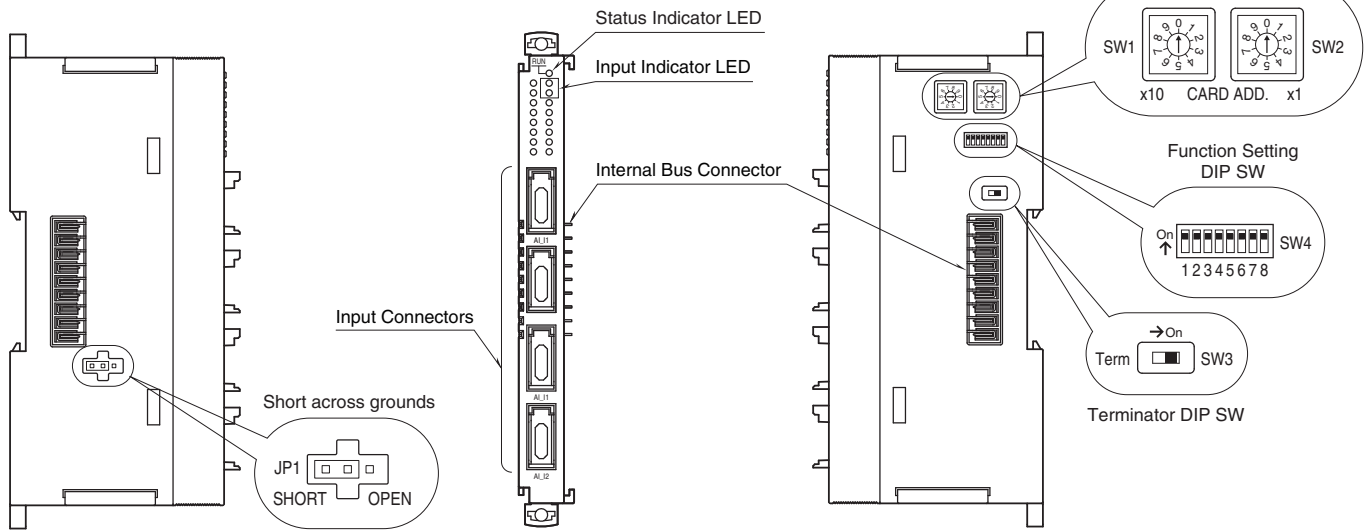
EMS EN 61000-6-2: 2005

EXTERNAL VIEW

■ LEFT SIDE VIEW

■ FRONT VIEW

■ RIGHT SIDE VIEW



SHORT ACROSS GROUNDS

Choose to open or short across grounds of excitation supply and input.

In case of shorting across, insert short-plug on center pin of JP1 and SHORT side.

In case of opening, insert short-plug on center pin of JP1 and OPEN side.

Factory default is on SHORT side.

OPERATING MODE SETTING

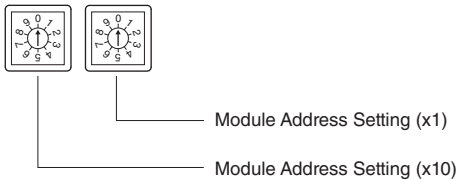
(*) Factory setting

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

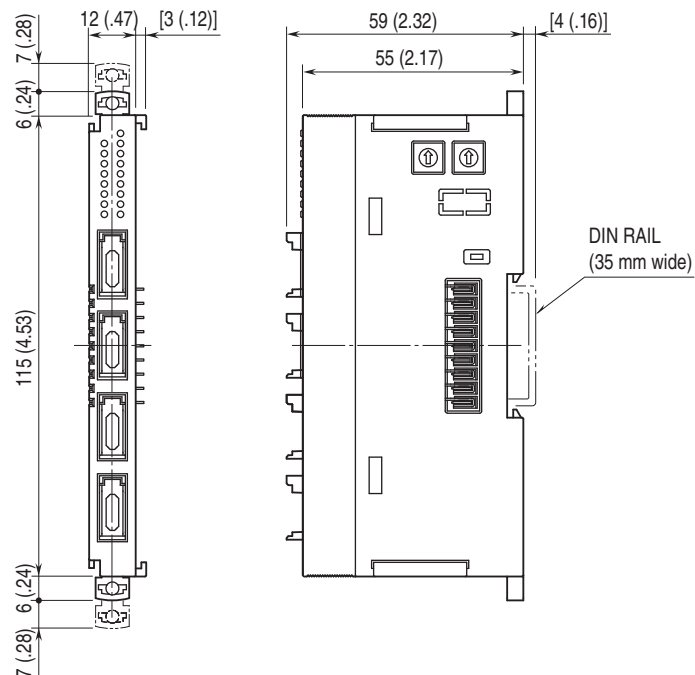
■ Configuration Mode

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

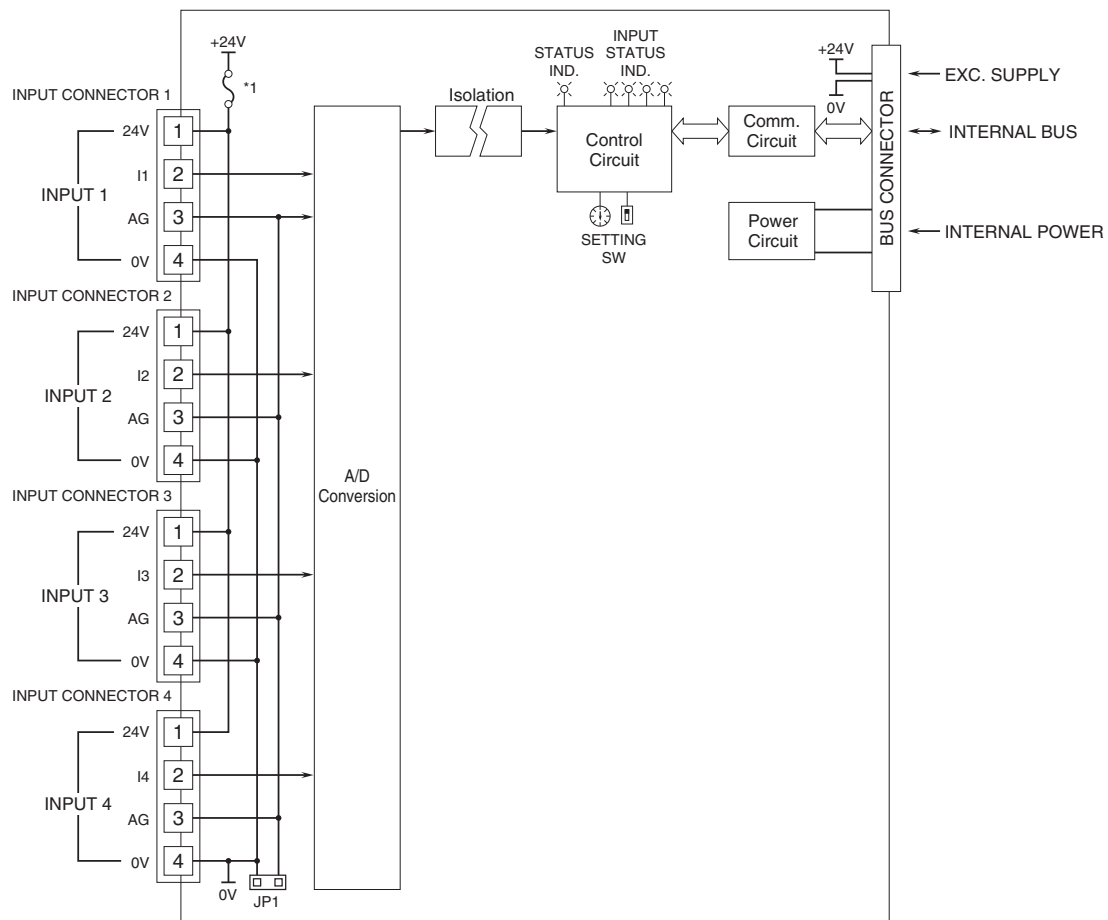
■ Terminator DIP SW

Terminator switch	SW3
Without (*)	OFF
With	ON

DIMENSIONS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*1. Fuse is not replazable.



Specifications are subject to change without notice.



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