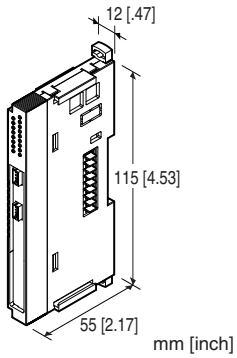
Remote I/O R8 Series

DC VOLTAGE INPUT MODULE

(2 points, isolated)

Functions & Features

• 2 channels for DC voltage input, compact size remote I/O module
• Isolation between channels
• Input range adjustment with PC configurator



MODEL: R8Y-SVZH2[1]

ORDERING INFORMATION

• Code number: R8Y-SVZH2[1]
Specify a code from below for [1].
(e.g. R8Y-SVZH2/Q)
• Specify the specification for option code /Q
(e.g. /C01)

[1] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to our web site.)
/C01: Silicone coating
/C02: Polyurethane coating

RELATED PRODUCTS

• PC Configurator cable (model: MCN-CON or COP-US)
• ZH connector cable (model: ZHCL)
The use of this cable is not mandatory.
• PC configurator software (model: R8CFG)
Downloadable at our web site.

GENERAL SPECIFICATIONS

Connection
• **Input**: 4-pin ZH connector
Unit side connector: S4B-ZR (J.S.T. Mfg. Co., Ltd.)
Recommended socket: ZHR-4 (J.S.T. Mfg. Co., Ltd.)
Recommended contact: SZH-002T-P0.5 (J.S.T. Mfg. Co., Ltd.)
Applicable wire size: AWG28 - 26
(The socket and contact are 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 1 to input 2 to exc. supply to internal bus or internal power
Input range: Selectable with PC configurator software
Module address: With DIP switch
Terminating resistor: Built-in (DIP Switch, default: disable)
Status indicator LED: Bi-color (red/green) LED; Refer to the instruction manual.

INPUT SPECIFICATIONS

Input range: -10 – +10 V DC configurable
Factory default: -10 – +10 V DC
Operational range: -5 - +105 % (in percentage of input range)
Input resistance: ≥ 1 MΩ

INSTALLATION

Max. current consumption: 110 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)
±0.05 % (@ input range -10 - +10 V)
Conversion accuracy is inversely proportional to input span.
Conversion accuracy computation example:
When input range is 1 - 5 V: conversion accuracy = nominal input span (20 V) ÷ input span (4 V) × 0.05 (%) = 0.25 (%).
Nominal input span is the same as the span at input range -10 - +10 V DC.
Conversion rate: 25 msec.
Input circuit time constant: Approx. 10 msec.
Data range: 0 – 10000 of the input range
Data allocation: 2
Module addresses in use: 1
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)

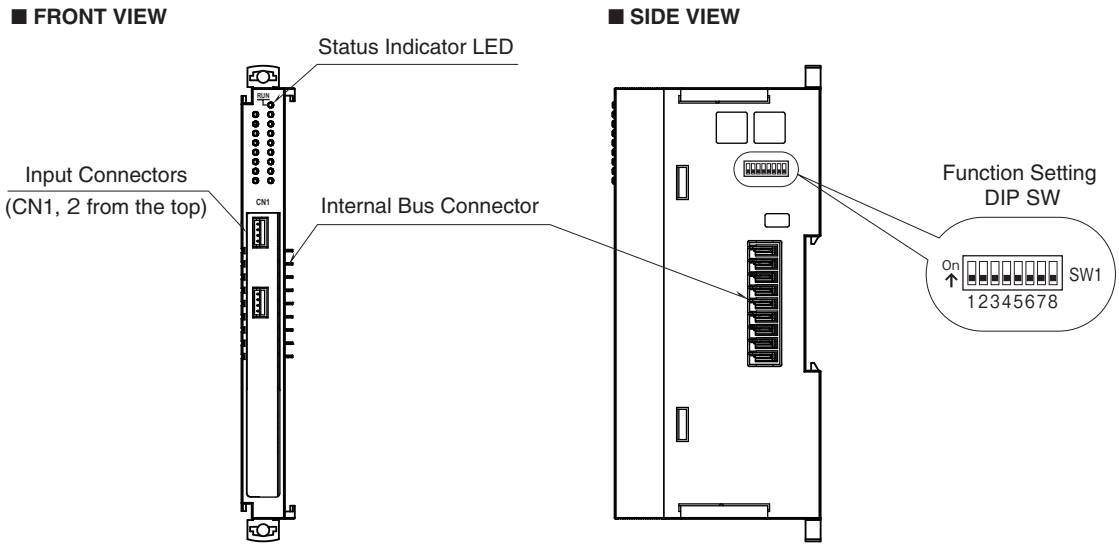
MG CO., LTD.
www.mgco.jp

Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 1500 V AC @ 1 minute
(input 1 to input 2 to exc. supply to internal bus or internal power to ground)

STANDARDS & APPROVALS

EU conformity:
EMC Directive
EMI EN 61000-6-4
EMS EN 61000-6-2
RoHS Directive

EXTERNAL VIEW



OPERATING MODE SETTING

(*) Factory default setting
Note: Be sure to set unused SW1-7 to OFF.

■ MODULE ADDRESS (SW1)

SW1-1 and SW1-2 determine the tenth place digit, while SW1-3 through 1-6 do the ones place digit of the module address.
Address is selected between 0 to 31.
(Factory setting: 0)

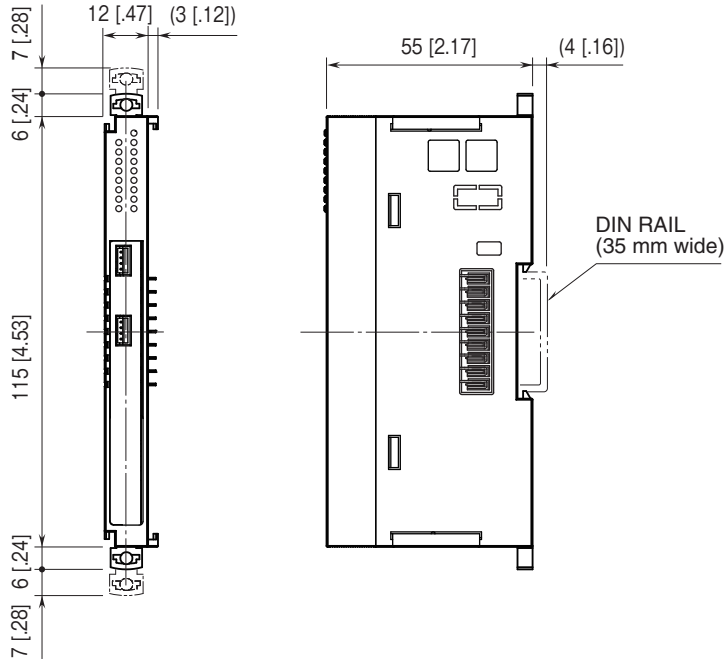
MODULE ADDRESS	SW1				
	×10			1	2
	×1	3	4	5	6
0		OFF	OFF	OFF	OFF
1		OFF	OFF	OFF	ON
2		OFF	OFF	ON	OFF
3		OFF	OFF	ON	ON
4		OFF	ON	OFF	OFF
5		OFF	ON	OFF	ON
6		OFF	ON	ON	OFF
7		OFF	ON	ON	ON
8		ON	OFF	OFF	OFF
9		ON	OFF	OFF	ON

■ TERMINATOR (SW1)

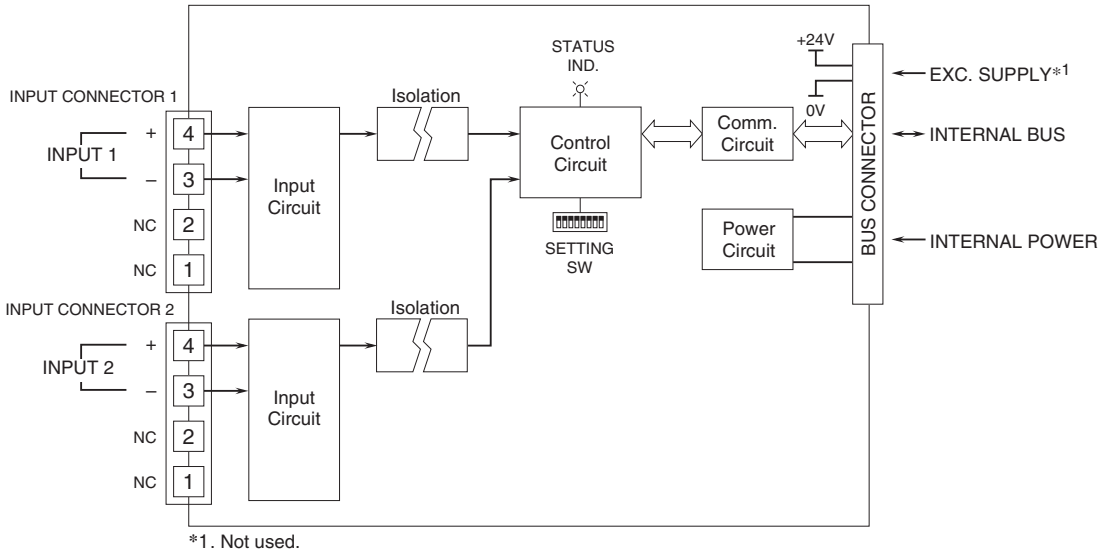
TERMINATOR	SW1-8
WIthout (*)	OFF
With	ON

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EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*1. Not used.

⚠ Specifications are subject to change without notice.

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