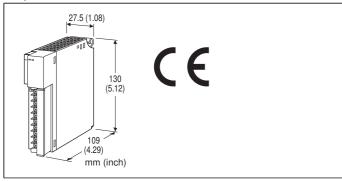
MODEL: R3-SV4

Remote I/O R3 Series

DC VOLTAGE INPUT MODULE

(4 points, isolated)



MODEL: R3-SV4[1][2]

ORDERING INFORMATION

Code number: R3-SV4[1][2]

Specify a code from below for each of [1] and [2].

(e.g. R3-SV4W/CE/Q)

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

NO. OF CHANNELS

4: 4

[1] COMMUNICATION MODE

S: Single W: Dual

[2] OPTIONS (multiple selections)

Standards & Approvals

blank: Without CE /CE: CE marking Other Options blank: none

/Q: Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating EX-FACTORY SETTING

/SET: Preset according to the Ordering Information Sheet

(No. ESU-8366)

CAUTION

■ UNUSED INPUT CHANNELS

Set the unused channels to the ranges otherthan $1-5\,V$. Otherwise, set them as "Unused" with PC Configurator software: R3CON. Unused channels left open with $1-5\,V$ setting are equal to the input lower than -15 %, which sets a data abnormality at the PLC or the host device.

GENERAL SPECIFICATIONS

Connection

Internal bus: Via the Installation Base (model: R3-BSx) Input: M3 separable screw terminal (torque 0.5 N·m)

Internal power: Via the Installation Base

(model: R3-BSx)

Screw terminal: Nickel-plated steel

Isolation: Input 1 to input 2 to input 3 to input 4 to internal

bus or internal power

Input range: Selectable with the side DIP SW **Conversion rate**: Selectable with the side DIP SW

RUN indicator: Bi-color (red/green) LED; Red when the bus A operates normally; Green when the bus B operates normally; Amber when both buses operate normally. **ERR indicator**: Bi-color (red/green) LED;

Red with input circuit abnormality (AD converter response

failure);

Green in normal operating conditions.

INPUT SPECIFICATIONS

■ Narrow Span: -1 - +1 V, 0 - 1 V DC

Input resistance: 100 k Ω min.

■ Wide Span: -10 - +10 V, -5 - +5 V,

0 - 10 V, 0 - 5 V, 1 - 5 V DCInput resistance: $1 \text{ M}\Omega$ min.

INSTALLATION

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**: Installation Base (model: R3-BSx)

Weight: 200 g (0.44 lb)

MODEL: R3-SV4

PERFORMANCE

Conversion accuracy: Refer to the table at the end of this

section.

Conversion rate: 80 / 40 / 20 / 10 msec. selectable

Data range: 0 - 10000 of the input range

Data allocation: 4

Current consumption: 60 mA

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

 $(\pm 0.03 \% / ^{\circ}C [\pm 0.02 \% / ^{\circ}F] \text{ with } 0 - 5 \text{ V or } 1 - 5 \text{ V range})$

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

Dielectric strength: $1500 \text{ V AC} \ @ \ 1 \ \text{minute}$ (input 1 to input 2 to input 3 to input 4 to internal bus or internal power) 2000 V AC $\ @ \ 1 \ \text{minute}$ (power input to FG; isolated on the

power supply module) Conversion accuracy

RATE	80 msec.	40 msec.	20 msec.	10 msec.
-10 – +10 V	±0.05%	±0.1%	±0.2%	±0.4%
-5 – +5 V	±0.05%	±0.1%	±0.2%	±0.4%
-1 - +1 V	±0.05%	±0.1%	±0.2%	±0.4%
0 – 10 V	±0.05%	±0.1%	±0.2%	±0.4%
0 – 5 V	±0.1%	±0.2%	±0.4%	±0.8%
1 – 5 V	±0.1%	±0.2%	±0.4%	±0.8%
0 – 1 V	±0.05%	±0.1%	±0.2%	±0.4%

STANDARDS & APPROVALS

EU conformity:

EMC Directive

EMI EN 61000-6-4

EMS EN 61000-6-2

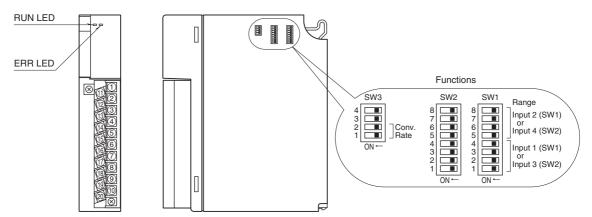
RoHS Directive

EN 50581

EXTERNAL VIEW

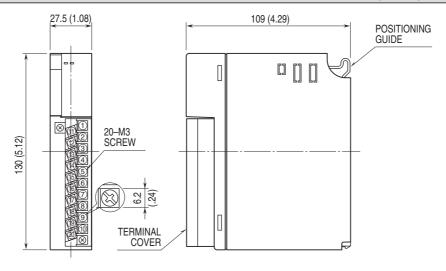
■ FRONT VIEW

■ SIDE VIEW

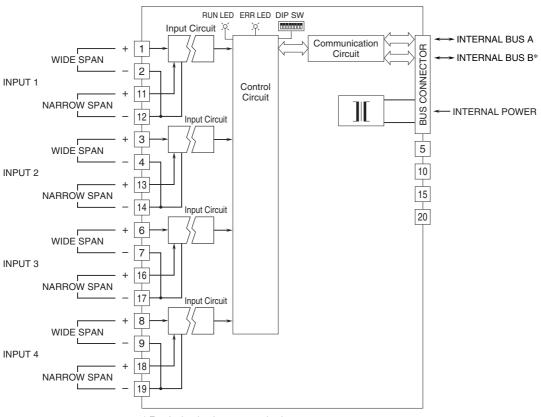


MODEL: R3-SV4

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



* For dual redundant communication.

Note: Connect either wide or narrow span terminals for each channel.

 \triangle

Specifications are subject to change without notice.