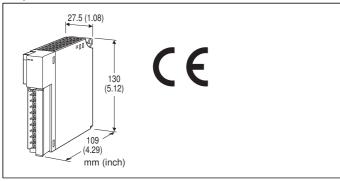
Remote I/O R3 Series

DC MILLIVOLT INPUT MODULE

(4 points, isolated)



MODEL: R3-SV4A[1][2]

ORDERING INFORMATION

Code number: R3-SV4A[1][2]

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

(e.g. R3-SV4AW/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-8410)

CAUTION

■UNUSED INPUT CHANNELS

Set the unused channels to -100 - +100 mV range. Otherwise, set them as "Unused" with PC Configurator software: R3CON. Unused channels left open with other settings may be 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 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 the input circuit abnormality (AD converter response failure);

INPUT SPECIFICATIONS

Green in normal operating conditions.

Input: -100 - +100 mV, -60 - +60 mV, -50 - +50 mV, 0 -

100 mV, 0 - 60 mV, 0 - 50 mV DC Input resistance: 100 k Ω 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)

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 $(\pm 0.03 \%)^{\circ}$ C with 0 - 50 mV range)

Insulation resistance: \geq 100 M Ω with 500 V DC

FAX: (02)2596-2331 Website: www.xintop.com

Dielectric strength: 1500 V AC @ 1 minute (input 1 to input



2 to input 3 to input 4 to internal bus or internal power) 2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

Conversion accuracy

RANGE RATE	80 msec.	40 msec.	20 msec.	10 msec.
-100 - +100mV	$\pm 0.05\%$	$\pm 0.1\%$	$\pm 0.2\%$	$\pm 0.4\%$
-60 - +60mV	$\pm 0.05\%$	±0.1%	±0.2%	±0.4%
-50 - +50mV	$\pm 0.05\%$	±0.1%	±0.2%	±0.4%
0 - 100 mV	±0.05%	±0.1%	±0.2%	±0.4%
$0-60 \mathrm{mV}$	±0.1%	±0.2%	±0.4%	±0.8%
$0-50 \mathrm{mV}$	±0.1%	±0.2%	±0.4%	±0.8%

STANDARDS & APPROVALS

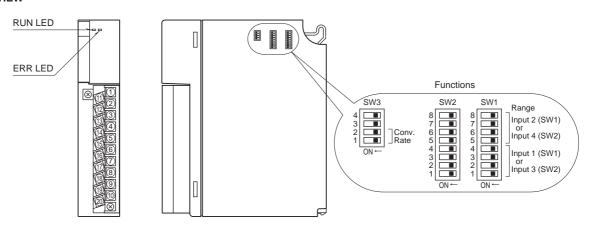
CE conformity:

EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007/A1: 2011 EMS EN 61000-6-2: 2005

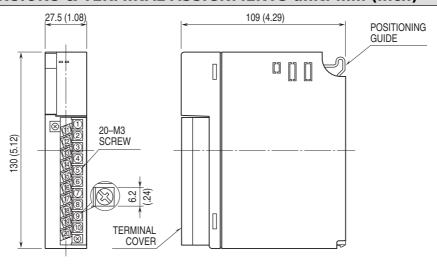
EXTERNAL VIEW

■ FRONT VIEW

■ SIDE VIEW



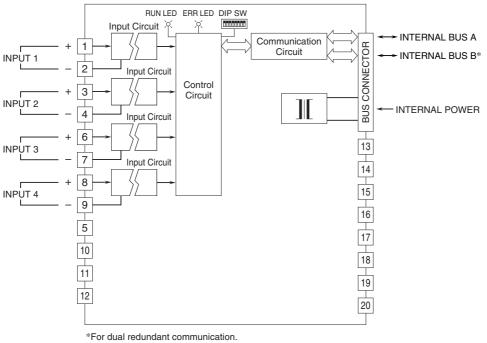
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)





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SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



DO NOT connect external wiring to the unused terminals.



Specifications are subject to change without notice.

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