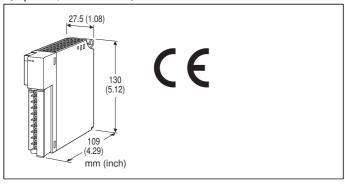
Remote I/O R3 Series

DC VOLTAGE INPUT MODULE

(8 points, non-isolated)



MODEL: R3-SV8N[1][2]

ORDERING INFORMATION

Code number: R3-SV8N[1][2]

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

(e.g. R3-SV8NW/CE/Q)

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

NO. OF CHANNELS

8: 8

ISOLATION

N: Non-isolated between inputs

[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-8403)

CAUTION

■ UNUSED INPUT CHANNELS

Set the unused channels to -10 – +10 V 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 to internal bus or internal power **Input range**: Selectable with the side DIP SW (per 4

channels)

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 the input circuit abnormality (AD

converter response failure);

Green in normal operating conditions.

INPUT SPECIFICATIONS

Input: -10 - +10 V, -5 - +5 V, 0 - 10 V, 0 - 5 V, 1 - 5 V DC

Input resistance: 1 M 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: 100 / 50 / 20 / 10 msec. selectable

Data range: 0 - 10000 of the input range

Data allocation: 8

Current consumption: 100 mA

Temp. coefficient: $\pm 0.015 \% / ^{\circ}C (\pm 0.008 \% / ^{\circ}F)$



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

Insulation resistance: $\geq 100~M\Omega$ with 500 V DC Dielectric strength: 1500 V AC @ 1 minute (input 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	100 msec.	50 msec.	20 msec.	10 msec.
-10 - +10V	±0.1%	±0.1%	±0.1%	±0.1%
-5 - +5V	±0.1%	±0.1%	±0.1%	±0.1%
0 - 10V	±0.1%	±0.1%	±0.1%	±0.1%
0 – 5V	±0.2%	±0.2%	±0.2%	±0.2%
1 – 5V	±0.2%	±0.2%	±0.2%	±0.2%

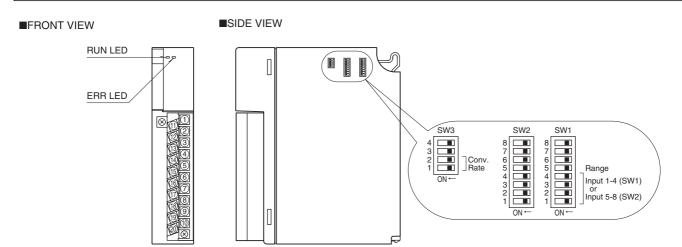
STANDARDS & APPROVALS

CE conformity:

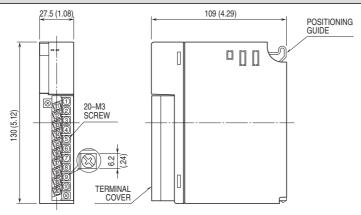
EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007/A1: 2011

EMS EN 61000-6-2: 2005

EXTERNAL VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



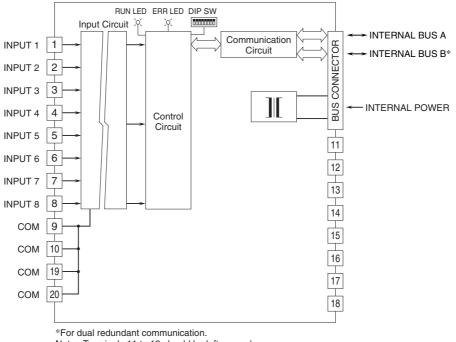
幸託有限公司 XIN TOP CORPORATION

TEL: (02)2598-1199 E-mail: info@xintop.com

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

MODEL: R3-SV8N

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Note: Terminals 11 to 18 should be left unused.

Specifications are subject to change without notice.

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