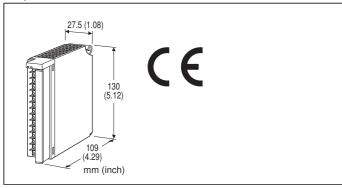
MODEL: R3-SV8

Remote I/O R3 Series

DC VOLTAGE INPUT MODULE

(8 points, isolated)



MODEL: R3-SV8[1][2]

ORDERING INFORMATION

• Code number: R3-SV8[1][2]

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

(e.g. R3-SV8W/CE/Q)

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

NO. OF CHANNELS

8: 8

[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-8367)

CAUTION

■ UNUSED INPUT CHANNELS

Set the unused channels to "Unused" with PC Configurator software: R3CON. For 1 to 5 V DC, 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 input 5 to input 6 to input 7 to input 8 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

■ Narrow Span: -1 - +1 V, 0 - 1 V DC

Input resistance: $100 \text{ k}\Omega \text{ min.}$

■ Wide Span: -10 - +10 V, -5 - +5 V,

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

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: 250 g (0.55 lb)

PERFORMANCE

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

section.

Conversion rate: 160 / 80 / 40 / 20 msec. selectable

TEL: (02)2598-1199 E-mail: info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com

Data range: 0 - 10000 of the input range

Data allocation: 8

Current consumption: 100 mA



MODEL: R3-SV8

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: 1000 V AC @ 1 minute (input 1 to input 2 to input 3 to input 4 to input 5 to input 6 to input 7 to

input 8 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 | 160 msec. | 80 msec. | 40 msec. | 20 msec. |
|------------|-----------|----------|----------|----------|
| All ranges | ±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

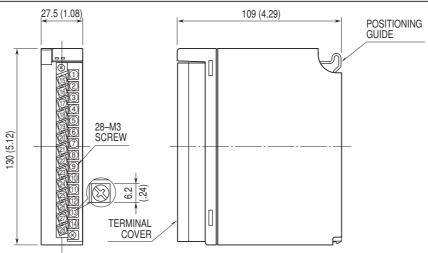
EXTERNAL VIEW

Functions

Functions

SW1 SW2 Range Input 1-4 (SW1) 2 Imput 5-8 (SW2) 3 Imput 5-8 (SW2) 4 Imput 5-8 (S

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)

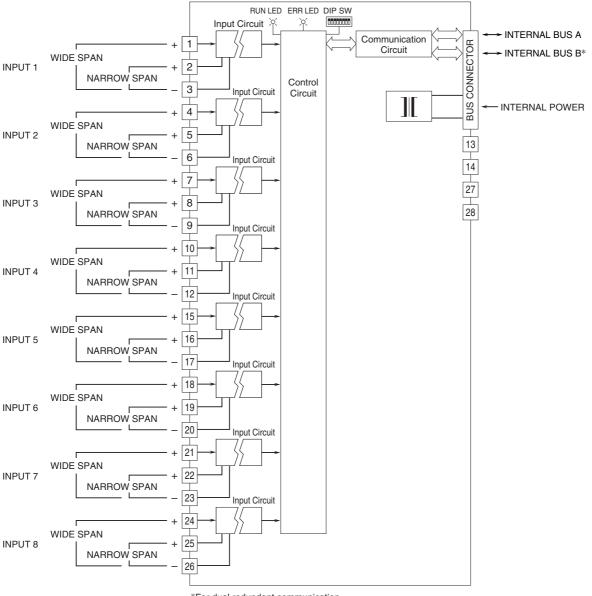




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SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*For dual redundant communication.

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



Specifications are subject to change without notice.

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